

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Giden Liang Examiner #: 79180 Date: 5-9-03  
 Art Unit: 2172 Phone Number (303) 398-5 Serial Number: 09/1540, 637  
 Mail Box and Bldg/Room Location: CPK II 4325 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cluster- AND DESCRIPTOR- BASED Recommendations

Inventors (please provide full names): BRADLEY, Paul S.; FAYYAD, Usama M.; OJJEH, Bassel Y

Earliest Priority Filing Date: 3/31/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Concept: Purchase prediction system  
(See Attachment A)

Claims: 1, > 4 (dependent)  
(Attachment B)

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STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Geoffrey St. Leger</u>	NA Sequence (#)	STN _____
Searcher Phone #: <u>303-7800</u>	AA Sequence (#)	Dialog _____ ✓
Searcher Location: <u>4B30</u>	Structure (#)	Questel/Orbit _____ ✓
Date Searcher Picked Up: <u>5/16/03</u>	Bibliographic	Dr. Link _____
Date Completed: <u>5/19/03</u>	Litigation	Lexis/Nexis _____
Searcher Prep & Review Time: <u>25 min</u>	Fulltext	Sequence Systems _____ ✓
Clerical Prep Time:	Patent Family	WWW/Internet _____
Online Time: <u>300 min</u>	Other	Other (specify) _____

May 19, 2003

Dear Ms. Liang,

Attached please find the results of your search request for application #09/540,637. I searched Dialog's foreign patent files, technical databases, product announcement files and general files.

Please let me know if you have any questions.

Regards,



Geoffrey St. Legat  
4B30/308-7800

File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)

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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200331

(c) 2003 Thomson Derwent

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Set	Items	Description
S1	2537546	GROUP???? OR SET? ? OR CLUSTER? ? OR COLLECTION? ?
S2	1287905	RECORD? ? OR PROFILE? ? OR USER? ? OR CONSUMER? ? OR CUSTOMER? ? OR BUYER? ? OR PURCHASER? ? OR SHOPPER? ? OR INDIVIDUAL? ? OR PERSON? ? OR PEOPLE? ?
S3	6888	S1(5N)S2(5N) (SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMPARE? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S4	140731	RECOMMEND? OR PREDICT? OR GUESS??? OR SUGGEST? OR REFER? ? OR REFERRAL? ? OR REFERRING OR FORECAST??? OR PROBABILIT?
S5	241	S3 AND S4 AND IC=G06F
S6	33	S5 AND SIMILAR?
S7	2154	GROUP????(5N)S2(5N) (SIMILAR? OR MATCH??? OR ALIKE OR LIKE - OR COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S8	105	S7 AND S4 AND IC=G06F
S9	84	S8 NOT S6
S10	49	S9 AND IC=G06F-017
S11	35	S9 NOT S10
S12	94	CLUSTER? ?(5N)S2(5N) (SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S13	7	S12 AND S4 AND IC=G06F
S14	120	S5 NOT (S6 OR S8 OR S13)
S15	63	S14 AND IC=G06F-017
S16	57	S14 NOT S15
S17	14023	(GROUP???? OR CLUSTER? ?)(10N)S2
S18	430	S4 AND S17 AND IC=G06F
S19	132	S17 AND (PREDICT? OR RECOMMEND?) AND IC=G06F
S20	97	S19 NOT (S6 OR S8 OR S13 OR S14)
S21	69	S20 AND IC=G06F-017
S22	28	S20 NOT S21

6/5/3 (Item 3 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05888737 \*\*Image available\*\*  
SYSTEM FOR PROVIDING INDIVIDUAL INFORMATION AND METHOD FOR MANAGING USER INFORMATION

PUB. NO.: 10-171837 [JP 10171837 A]  
PUBLISHED: June 26, 1998 (19980626)  
INVENTOR(s): JINBA TOMONARI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-342573 [JP 96342573]  
FILED: December 06, 1996 (19961206)  
INTL CLASS: [6] G06F-017/30  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)  
JAPIO KEYWORD: R011 (LIQUID CRYSTALS); R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a system for reducing a storage capacity necessary for storing user information, and for allowing a user to easily capture how the user shares his or her interest with another user in an individual information providing system for providing information customized for an individual.

SOLUTION: This system is provided with a user information storing means 105 which stores one part of user information, group information storing means 106-107 which hierarchically constitute the group of people having user information similar to the user, user information preparing means 102 which prepares the whole user information by referring to one part of the user information and the group information, and user screen preparing means 103 which prepares a screen for a user based on the output of the user information preparing means.

6/5/4 (Item 4 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05690771 \*\*Image available\*\*  
TIME SERIES DATA PROCESSING METHOD

PUB. NO.: 09-305571 [JP 9305571 A]  
PUBLISHED: November 28, 1997 (19971128)  
INVENTOR(s): ASHIDA HITOSHI  
MAEDA AKIRA  
ITO YUKIYASU  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-116004 [JP 96116004]  
FILED: May 10, 1996 (19960510)  
INTL CLASS: [6] G06F-017/00 ; G06F-017/60  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)  
JAPIO KEYWORD: R108 (INFORMATION PROCESSING -- Speech Recognition & Synthesis)

#### ABSTRACT

PROBLEM TO BE SOLVED: To accelerate processing by reducing the number of

combination of merchandise to define the relation of order by automatically determining the merchandise (service) vending order of a customer based on applied time series data.

SOLUTION: In the case of order relation definition processing 101, clustering processing is performed for classifying the merchandise into the plural groups of similar customers and concerning respective generated classes, the relation of order to purchase the respective articles is defined. In order relation definition processing 102, when the order relation of purchase of two articles is recognized from the counted number of events, the average value of time difference and the standard deviation are found and the order relation of merchandise in the respective classes is displayed. In order relation display processing 103, the drawing of order relation between the merchandise designated by a user and the other merchandise in the same class is prepared and graphically displayed. In this case, when any one merchandise is designated, the order relation with the other merchandise in the same class is uniquely determined by referring to an order relation definition table generated by the processing 102.

6/5/5 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015237266 \*\*Image available\*\*  
WPI Acc No: 2003-298192/200329  
XRPX Acc No: N03-237070

Product recommendation provision method involves determining peer group of customer based on calculated similarity function of content and compatibility attributes, to generate potential recommendation for customer

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: AGGARWAL C C; YU P S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6487539	B1	20021126	US 99369741	A	19990806	200329 B

Priority Applications (No Type Date): US 99369741 A 19990806

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6487539	B1	14		G06F-017/60	

Abstract (Basic): US 6487539 B1

NOVELTY - The content representation of product is generated based on product content information extracted corresponding to the customers. A similarity function between pair of content attributes and compatibility attributes of the products are calculated based on which the closest peer group to which the customer belong is determined. A potential recommendation for customer is generated based on the peer group.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for storage device storing product recommendation provision program.

USE - For providing product recommendation to customers for online shopping.

ADVANTAGE - Useful information for making purchases through Internet is provided to the customer by generating potential recommendation corresponding to the peer group of customer .

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart

explaining the process of providing product recommendation to customers.

pp; 14 DwgNo 2/7

Title Terms: PRODUCT; PROVISION; METHOD; DETERMINE; PEER; GROUP; CUSTOMER; BASED; CALCULATE; SIMILAR ; FUNCTION; CONTENT; COMPATIBLE; ATTRIBUTE; GENERATE; POTENTIAL; CUSTOMER

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/14 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014365117 \*\*Image available\*\*

WPI Acc No: 2002-185818/200224

Method for providing intelligent real-time personal customized information service

Patent Assignee: CRM-WIZARD.COM CO LTD (CRMW-N); CRM WIZARD.COM JH (CRMW-N)

Inventor: KIM G H

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001092819	A	20011027	KR 200015440	A	20000327	200224 B
KR 356319	B	20021019	KR 200015440	A	20000327	200326

Priority Applications (No Type Date): KR 200015440 A 20000327

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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KR 2001092819	A	1		G06F-017/60	
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KR 356319	B			G06F-017/60	Previous Publ. patent KR 2001092819
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Abstract (Basic): KR 2001092819 A

NOVELTY - A method for providing an intelligent real-time personal customized information service is provided to give the convenience of information access to users by suggesting information according to approach probability .

DETAILED DESCRIPTION - A user accesses a web server using a computer(300). The web server grasps and digitalizes a time point to provide information, based on the user information approach history(400). The web server recommends information having the highest relevance to the user , based on the information approach history of a group having a characteristic similar to the user (500). The web server synthetically arranges recommended lists(600). As the web server provides a personal customized service to the user, the user approaches information(700). The web server updates a real-time database(800).

pp; 1 DwgNo 1/10

Title Terms: METHOD; INTELLIGENCE; REAL; TIME; PERSON; CUSTOMISATION;

INFORMATION; SERVICE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/15 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014358579    \*\*Image available\*\*

WPI Acc No: 2002-179280/200223

Related WPI Acc No: 2001-596089; 2002-171206; 2002-179274; 2002-187996;  
2002-187998; 2003-278737

XRPX Acc No: N02-136385

**Intelligent system for recommending media content items based on user preferences e.g. for network-based video recording system, uses expressed preferences as inputs to filters and Bayesian predictive algorithms to rate TV programs**

Patent Assignee: TIVO INC (TIVO-N); ALI K (ALIK-I); VAN STAM W (VSTA-I)

Inventor: ALI K; VAN STAM W

Number of Countries: 091 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200147273	A1	20010628	WO 2000US33877	A	20001214	200223 B
AU 200120992	A	20010703	AU 200120992	A	20001214	200223
US 20020199186	A1	20021226	WO 2000US33877	A	20001214	200304
			US 2002168808	A	20020621	

Priority Applications (No Type Date): US 99171829 P 19991221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200147273	A1	E	44	H04N-007/173	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200120992	A	H04N-007/173	Based on patent WO 200147273
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US 20020199186	A1	H04N-007/16	
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Abstract (Basic): WO 200147273 A1

**NOVELTY** - Network-based video recording system rates television programs according to the likelihood that they will appeal to a user, based on the user's own previous ratings of television programming. Individual recording units, clients, are in intermittent communication with a server. A user interface is provided in which the user teaches the system by recording their programming preferences.

**DETAILED DESCRIPTION** - Using an interactive rating system that employs a thumbs up and thumbs down metaphor for favorable and unfavorable ratings, respectively, individual users may give an overall rating to a program, or they may rate individual users may give an overall rating to a program, or they may rate individual features of the program: for example, directors, actors, and genres; provided in interactive lists. The users preferences are then used as inputs to one or more **predictive** algorithms.

**INDEPENDENT CLAIM** is also included for the following:

(a) method of **predicting** items

**USE** - For network-based video recording system.

**ADVANTAGE** - **Predictive** algorithms are adaptive improving in accuracy as more programs are rated. **Predicts** rating for an item according to how much it will appeal to a user. Provides multiple **prediction** engines that are capable of providing the most accurate **prediction** for any particular item. Provide a convenient user interface for teaching the system the user's preferences. Has adaptive capability, so that it can learn and adapt to shifts in user preferences. The distributed collaborative filtering engine guarantees a user's privacy by eliminating the necessity of **correlating** the user to other user's or groups of users. Calculates similarity

between items, rather than between **users** and to perform such calculation on the client side, eliminating the necessity of a stateful connection between the server and the client. Provide an adaptive modelling **prediction** engine that accepted both explicit user ratings and had the capability of inferring user ratings in the absence of explicit ratings. Displays the output of the various **prediction** engines in a single, integrated list.

**DESCRIPTION OF DRAWING(S)** - The diagram shows the functional architecture of a network based system for **predicting** the likelihood that a an item of media content will appeal to a user based on previous ratings of content items by the user

compute correlation (19)  
rated items (15)  
collaborative engine (17)  
pp; 44 DwgNo 1/10

Title Terms: INTELLIGENCE; SYSTEM; MEDIUM; CONTENT; ITEM; BASED; USER; NETWORK; BASED; VIDEO; RECORD; SYSTEM; EXPRESS; INPUT; FILTER; BAYESIAN; **PREDICT**; ALGORITHM; RATE; TELEVISION; PROGRAM

Derwent Class: T01; W04

International Patent Class (Main): H04N-007/16; H04N-007/173

International Patent Class (Additional): G06F-015/16 ; H04N-007/10; H04N-007/25

File Segment: EPI

6/5/18 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014080366 \*\*Image available\*\*

WPI Acc No: 2001-564580/200163

XRPX Acc No: N01-420273

User reaction predicting method for computer based marketing, involves selecting set of mentors from users and objective archetypes and pairing the users with mentors for predicting the not rated item rating

Patent Assignee: GREENING D R (GREE-I); HEY J B (HEYJ-I)

Inventor: GREENING D R; HEY J B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010013009	A1	20010809	US 9747220	A	19970520	200163 B
			US 9881264	A	19980519	

Priority Applications (No Type Date): US 9747220 P 19970520; US 9881264 A 19980519

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20010013009	A1	22	G06F-017/60	Provisional application US 9747220

Abstract (Basic): US 20010013009 A1

NOVELTY - A rating representing the user reaction to the item, several objective archetypes (104), representing hypothetical **user** and **associated** item and rating representing hypothesized reaction are defined. A set of mentors (120) from the **user** group and from several objective archetypes is selected, based on **similarity** of rating of each **user** in group and each objective archetype. Each mentor is paired successively with selected **user** and **similarity** function representing overall pair rating agreement is computed. The selected user rating for not rated items is **predicted** from **similarity** functions and mentor ratings of item.

**DETAILED DESCRIPTION** - An INDEPENDENT CLAIM is also included for user's reaction **predicting** system.

**USE** - For computer based marketing of items such as movies, books, music, games, food, groceries, special interest clubs, chat groups, online forums, web sites and advertising.

**ADVANTAGE** - Archetype **recommendation** provides ability to **predict** user's response to new items and **recommend** new items to a user efficiently and accurately. Objective archetype rates all items satisfying best rating criterion.

**DESCRIPTION OF DRAWING(S)** - The figure shows flow diagram of logical architecture of system and method for **recommending** items.

Objective archetypes (104)

Mentors (120)

pp; 22 DwgNo 1/12

Title Terms: USER; REACT; PREDICT ; METHOD; COMPUTER; BASED; MARKET;  
SELECT; SET; USER; OBJECTIVE; PAIR; USER; PREDICT ; RATE; ITEM; RATING  
Derwent Class: T01; T05  
International Patent Class (Main): G06F-017/60  
File Segment: EPI

6/5/22 (Item 18 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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013509310 \*\*Image available\*\*

WPI Acc No: 2000-681256/200067

XRPX Acc No: N00-504407

Finding groups within population of people who have accessed resources that include linguistically analyzable content, such as data defining text or speech

Patent Assignee: XEROX CORP (XERO )

Inventor: GREFENSTETTE G; ROUX C

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1050832	A2	20001108	EP 2000109440	A	20000503	200067 B
US 6446035	B1	20020903	US 99305836	A	19990505	200260

Priority Applications (No Type Date): US 99305836 A 19990505

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1050832 A2 E 21 G06F-017/60

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

US 6446035 B1 G06F-017/20

Abstract (Basic): EP 1050832 A2

**NOVELTY** - Method obtains expression or person data that identify, for each set of expression types that occur in the content of the resources, at least one person in the population who has accessed a resource that includes an instance of that type, and uses the expression or person data to obtain group information that can indicate a group of people in the population who have accessed resources that include instances of expression types that have **similar** conceptual content.

**DETAILED DESCRIPTION** - The method entails storing expression or person data in a database, receiving a query signal which includes a set of expressions from a user, and using the query signal to access the expression/person data in the database and obtaining database

output data indicating a group of people in the population who have accessed resources that include instances of expression types that are likely to have meanings **similar** to the set of expressions indicated by the query signal. Database output data is used to present information to the user about indicated group of people.

**USE** - For obtaining information about people, or groups of people in a population, or analysis of sects in a group or sets of data in a batch.

**ADVANTAGE** - For obtaining information about **groups of people** e.g. with **similar** interests within an organization or in a population, target advertisement or other message to a group of people who are likely to be interested rather than the entire population. New techniques can be implemented in system in which resources can be accessed through a network, such as a system that accesses Web pages through the Internet or an intranet. Could also be applied to bootstrap a **recommender** system such as Knowledge pump; to obtain information that can be used with shared bookmark system; or to obtain information from a wide variety of different kinds of resource access behavior.

**DESCRIPTION OF DRAWING(S)** - Drawing is schematic flow diagram showing how expression/person data can be used to obtain group information.

pp; 21 DwgNo 1/6

Title Terms: FINDER; GROUP; POPULATION; PEOPLE; ACCESS; RESOURCE; ANALYSE; CONTENT; DATA; DEFINE; TEXT; SPEECH  
Derwent Class: T01  
International Patent Class (Main): G06F-017/20 ; G06F-017/60  
International Patent Class (Additional): G06F-017/27 ; G06F-017/30  
File Segment: EPI

6/5/23 (Item 19 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013483063 \*\*Image available\*\*  
WPI Acc No: 2000-655006/200063  
XRPX Acc No: N00-485423

Collection strategy determination for payment collection from delinquent consumer, by assigning individual consumer to one strategy response category based on nexus between characteristic and individual consumers

Patent Assignee: FIRST USA BANK NA (FIRS-N)

Inventor: KOSIBA E; SMALLWOOD S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6098052	A	20000801	US 9821574	A	19980210	200063 B

Priority Applications (No Type Date): US 9821574 A 19980210

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6098052	A	32	G06F-017/00	

Abstract (Basic): US 6098052 A

**NOVELTY** - A strategy response category is defined for billing cycles of delinquent consumer's account grouping consumer by **similar** response characteristics. Individual consumers are assigned from specific population to one strategy response category based on nexus between characteristic and individual consumers.

**DETAILED DESCRIPTION** - An INDEPENDENT CLAIM is also included for recommending collection strategies.

USE - For determining collection strategy for use in credit card industry for collecting payments from delinquent consumers for debts owed by consumers.

ADVANTAGE - Enables to determine collection strategy that should be used on particular delinquent account and how collection resources should be divided among all delinquent accounts. Allows to determine delinquent accounts that should be targeted to minimize negative rolling and to maximize total collections and to calculate what is expected return of collection strategy. Determines historical, current and future account data to be used for helping predict future behavior of delinquent consumer and determines when delinquent accounts are to be dropped into collections.

DESCRIPTION OF DRAWING(S) - The figure shows the general block diagram of computerized collection strategy model.

pp; 32 DwgNo 1A/19

Title Terms: COLLECT; STRATEGY; DETERMINE; PAY; COLLECT; CONSUME; ASSIGN; INDIVIDUAL; CONSUME; ONE; STRATEGY; RESPOND; CATEGORY; BASED; CHARACTERISTIC; INDIVIDUAL; CONSUME

Derwent Class: T01; T05

International Patent Class (Main): G06F-017/00

File Segment: EPI

6/5/24 (Item 20 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013254802 \*\*Image available\*\*  
WPI Acc No: 2000-426685/200037  
XRPX Acc No: N00-318312

Product recommendation provision method in electronic commercial transaction system, involves clustering customer characteristics from similar point and classifying customer according to associate groups

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ); IBM CORP (IBMC ); AGGARWAL C C (AGGA-I); YU P S (YUPS-I)

Inventor: AGGARWAL C C; YU P S

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000148864	A	20000530	JP 99286140	A	19991007	200037 B
GB 2345559	A	20000712	GB 9923225	A	19991004	200037
US 20010049623	A1	20011206	US 98169029	A	19981009	200203
US 6356879	B2	20020312	US 98169029	A	19981009	200221

Priority Applications (No Type Date): US 98169029 A 19981009

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000148864	A	13		G06F-017/60	
GB 2345559	A			G06F-017/60	
US 20010049623	A1			G06F-017/60	
US 6356879	B2			G06F-017/60	

Abstract (Basic): JP 2000148864 A

NOVELTY - An associate group is formed by clustering the customer characteristics based on a similar point. The customers are classified according to the associated group and a product recommendation is produced and provided to the customer based on distinguished customer characteristics and classification.

DETAILED DESCRIPTION - The product characteristics and customer

characteristics are derived from the text description of the product and an electronic commercial transaction site browsed by the customer. The customer characteristics derived similar and related are generated. An INDEPENDENT CLAIM is also included for the apparatus that provides product recommendation .

USE - For electronic commercial transaction system.

ADVANTAGE - Obtains improved system for providing product recommendation in electronic commercial transaction site based on product characteristics and user behavior.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the system.

pp; 13 DwgNo 1/5

Title Terms: PRODUCT; PROVISION; METHOD; ELECTRONIC; COMMERCIAL; TRANSACTION; SYSTEM; CUSTOMER; CHARACTERISTIC; SIMILAR ; POINT; CLASSIFY ; CUSTOMER; ACCORD; ASSOCIATE; GROUP

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-013/00

File Segment: EPI

6/5/25 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013166930 \*\*Image available\*\*

WPI Acc No: 2000-338803/200029

Related WPI Acc No: 2002-179158; 2002-216125

XRPX Acc No: N00-254335

Recommending e.g. book, compact disc, video disc etc to on-line user of E-commerce by accessing data structure that identifies corresponding set or similar item for combining set of similar items to generate set of additional items

Patent Assignee: AMAZON.COM (AMAZ-N); BENSON E A (BENS-I); JACOBI J A (JACO-I); LINDEN G D (LIND-I); AMAZON.COM INC (AMAZ-N)

Inventor: BENSON E A; JACOBI J A; LINDEN G D

Number of Countries: 088 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200017793	A1	20000330	WO 99US21108	A	19990913	200029 B
AU 9961447	A	20000410	AU 9961447	A	19990913	200035
US 20010021914	A1	20010913	US 98156237	A	19980918	200155
			US 2001850263	A	20010507	
US 6317722	B1	20011113	US 98156237	A	19980918	200173

Priority Applications (No Type Date): US 98156237 A 19980918; US 2001850263 A 20010507

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200017793 A1 E 36 G06F-017/60

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW  
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

AU 9961447 A G06F-017/60 Based on patent WO 200017793

US 20010021914 A1 G06F-017/60 Cont of application US 98156237

US 6317722 B1 G06F-017/60

Abstract (Basic): WO 200017793 A1

NOVELTY - A computer system provides a user access to a database of items, and electronic shopping carts that allows users to interactively select and hold items from the database for prospective purchase. Some of the items of the set of additional items are presented to the user as **recommendations**. The set of additional items is generated by combining the sets of **similar** items.

DETAILED DESCRIPTION - The corresponding set of **similar** items is identified by accessing the data structure for each item. A **recommendation** process generates personal **recommendations** for the user that has an electronic shopping cart by identifying predetermined items from one of the groups of items that are currently in the user's shopping cart, items that are purchased from the shopping cart, and items that are removed from the shopping cart without being purchased. A data structure maps items from the database to sets of **similar** items from the database. An INDEPENDENT CLAIM is also included for a **recommending** method for item e.g. book, compact disc, video disc to on-line user of electronic commerce system.

USE - For **recommending** item e.g. book, compact disc, video disc to on-line user of electronic commerce system.

ADVANTAGE - Generates **recommendations** without the need for the user, or any other user, to rate items. Identifies **recommended** items using a previously generated table or other mapping structure which maps individual items to lists of **similar** items. Allows user to create multiple shopping carts under a single account.

DESCRIPTION OF DRAWING(S) - The figure shows a web site which implements a **recommendation** service, showing the flow of information between components.

pp; 36 DwgNo 1/7

Title Terms: BOOK; COMPACT; DISC; VIDEO; DISC; LINE; USER; ACCESS; DATA; STRUCTURE; IDENTIFY; CORRESPOND; SET; **SIMILAR**; ITEM; COMBINATION; SET; **SIMILAR**; ITEM; GENERATE; SET; ADD; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-015/173 ; G06F-017/00 ; H04H-001/00; H04K-001/00

File Segment: EPI

6/5/26 (Item 22 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013136977 \*\*Image available\*\*

WPI Acc No: 2000-308849/200027

XRPX Acc No: N00-231367

Service data providing system for online shopping, computes similarity coefficient for each extracted data group according to user 's access priority and accordingly recommended data is provided  
Patent Assignee: DIGITAL VISION LAB KK (DIGI-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000090094	A	20000331	JP 98254006	A	1998090	200027 B

Priority Applications (No Type Date): JP 98254006 A 19980908

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000090094	A	23	G06F-017/30	

Abstract (Basic): JP 2000090094 A

NOVELTY - An extraction unit (131) extracts user preferred data based on the search conditions stored in the database (12). The **similarity** coefficient corresponding to each data group is computed by the extraction unit (132), based on user's access priority. The **recommended** data appropriate to the **similarity** coefficient is retrieved based on the user's demand and accordingly data is output to user's terminal.

DETAILED DESCRIPTION - The search conditions are set based on the user identifier data and log data of various goods. The goods data is retrieved according to the **recommended** priority for each data group depending on the **similarity** coefficient. A correlation data representing the correlation between various data groups is obtained according to the concurrence of the search conditions. During output of data, the correlation data is referred. An INDEPENDENT CLAIM is also included for service data extraction and provision procedure.

USE - For providing goods data in online shopping using internet.

ADVANTAGE - Enables extraction of desired information preferred by the user by setting the **similarity** coefficient for each database.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of service data output system.

Database (12)

Extraction units (131,132)

pp; 23 DwgNo 1/17

Title Terms: SERVICE; DATA; SYSTEM; SHOPPING; COMPUTATION; **SIMILAR** ; COEFFICIENT; EXTRACT; DATA; GROUP; ACCORD; USER; ACCESS; PRIORITY; ACCORD ; **RECOMMENDED** ; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

6/5/27 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013121022 \*\*Image available\*\*

WPI Acc No: 2000-292893/200025

XRPX Acc No: N00-219647

Computer-implemented item recommendation method applicable for computer system; uses data structure for identified items that are identified as interest to user to identify corresponding set of similar items

Patent Assignee: AMAZON.COM INC (AMAZ-N); AMAZON.COM (AMAZ-N)

Inventor: BENSON E A; JACOBI J A; LINDEN G D

Number of Countries: 089 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200017792	A1	20000330	WO 99US20974	A	19990910	200025 B
AU 9963880	A	20000410	AU 9963880	A	19990910	200035
US 6266649	B1	20010724	US 98157198	A	19980918	200146
EP 1121658	A1	20010808	EP 99951441	A	19990910	200146
			WO 99US20974	A	19990910	

Priority Applications (No Type Date): US 98157198 A 19980918

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200017792 A1 E 36 G06F-017/60

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW  
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW  
AU 9963880 A G06F-017/60 Based on patent WO 200017792  
US 6266649 B1 G06F-017/60  
EP 1121658 A1 E G06F-017/60 Based on patent WO 200017792  
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200017792 A1

NOVELTY - A data structure that maps individual items of a database to sets of similar items which are based to collective item interests of a user, is produced. The data structure for identified items that are known to be of interest to the user, is accessed to identify the corresponding set of similar items. The similar items are combined to produce set of additional items for selection and recommendation to the user.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a computer-implemented item recommendation system.

USE - Applicable for recommending products e.g. books, compact disc, video to online customer in a computer system.

ADVANTAGE - Enables producing item recommendation without the need for the effort of predetermined user, to rate a predetermined item. Enables identification of recommended items using previously-generated table or other mapping structure which maps individual items to the lists of similar items. Enables personal recommendation to be generated rapidly and efficiently without sacrificing breadth of analysis.

DESCRIPTION OF DRAWING(S) - The figure shows the web site implementing an item recommendation service, and the flow of information between components.

pp; 36 DwgNo 1/7

Title Terms: COMPUTER; IMPLEMENT; ITEM; METHOD; APPLY; COMPUTER; SYSTEM;  
DATA; STRUCTURE; IDENTIFY; ITEM; IDENTIFY; INTEREST; USER; IDENTIFY;  
CORRESPOND; SET; SIMILAR ; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/30 (Item 26 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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011076959 \*\*Image available\*\*

WPI Acc No: 1997-054883/199706

Related WPI Acc No: 1998-506965

XRPX Acc No: N97-044971

Item recommendation method for one of several users on Internet -  
involves selecting set of neighbouring users on basis of calculated  
similarities and predicting rating for item

Patent Assignee: MASSACHUSETTS INST TECHNOLOGY (MASI ); MICROSOFT CORP  
(MICR-N)

Inventor: LASHKARI Y Z; MAES P; METRAL M E; SHARDANAND U; CHISLENKO A;  
MCNULTY J E; SHEENA J A; SULLIVAN J J; LASHKARI Y; TIU D D; BERGH C P;  
RITTER D H

Number of Countries: 072 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 751471	A1	19970102	EP 96304536	A	19960618	199706 B

WO 9702537	A1	19970123	WO 96US10492	A	19960618	199710
AU 9662825	A	19970205	AU 9662825	A	19960618	199721
JP 11509019	W	19990803	WO 96US10492	A	19960618	199941
			JP 97505156	A	19960618	
US 6041311	A	20000321	US 95598	A	19950630	200021
			US 958458	A	19951211	
			US 96597442	A	19960202	
			US 97789758	A	19970128	
US 6049777	A	20000411	US 95598	A	19950630	200025
			US 958458	A	19951211	
			US 96597442	A	19960202	
			US 97818515	A	19970314	
US 6092049	A	20000718	US 95598	A	19950630	200037
			US 958458	A	19951211	
			US 96597442	A	19960202	
			US 97818533	A	19970314	
US 6112186	A	20000829	US 95598	A	19950630	200043
			US 958458	A	19951211	
			US 96597442	A	19960202	
			US 97828631	A	19970331	

Priority Applications (No Type Date): US 96597442 A 19960202; US 95598 P 19950630; US 958458 P 19951211; US 97789758 A 19970128; US 97818515 A 19970314; US 97818533 A 19970314; US 97828631 A 19970331

Cited Patents: 2.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 751471		A1	E	23 G06F-017/60	

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

WO 9702537 A1 E 45

Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9662825	A		Based on patent WO 9702537
JP 11509019	W	49 G06F-017/30	Based on patent WO 9702537
US 6041311	A	G06F-017/30	Provisional application US 95598
			Provisional application US 958458
			CIP of application US 96597442
US 6049777	A	G06F-017/60	Provisional application US 95598
			Provisional application US 958458
			CIP of application US 96597442
US 6092049	A	G06F-019/00	Provisional application US 95598
			Provisional application US 958458
			CIP of application US 96597442
US 6112186	A	G06F-017/60	Provisional application US 95598
			Provisional application US 958458
			CIP of application US 96597442

Abstract (Basic): EP 751471 A

The item **recommendation** method involves storing a profile for each of several users in a memory. Some of the values represent a rating given to items by a user. An item profile is stored in a memory for each of several items. Several **similarity** factors are calculated between different users.

Several neighbouring users are selected for each user on the basis of the **similarity** factors. A weight is assigned to each of the neighbouring users. An item is **recommended** to one of the users on the basis of the weights assigned to the neighbours and the ratings they

gave an item.

USE/ADVANTAGE - For goods and services, World Wide Web or LAN.  
Obtains opinions from several users on ratings. Compares **similarity**  
of users so as to make it likely that they have **similar** tastes.

Dwg.1/4

Title Terms: ITEM; METHOD; ONE; USER; SELECT; SET; NEIGHBOURING; USER;  
BASIS; CALCULATE; **PREDICT** ; RATING; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30 ; G06F-017/60 ;  
**G06F-019/00**

File Segment: EPI

?

10/5/6 (Item 6 from file: 347)  
DIALOG(R) File 347:JAPIO  
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07301524 \*\*Image available\*\*  
MATCHING INFORMATION RECOMMENDATION SYSTEM, MATCHING INFORMATION  
RECOMMENDATION METHOD, STORAGE MEDIUM WITH MATCHING INFORMATION  
RECOMMENDATION PROGRAM STORED THEREIN, AND SIMULTANEOUS APPLICATION  
SYSTEM FOR HOUSING-RELATED COMMODITY IN CONTRACT

PUB. NO.: 2002-170004 [JP 2002170004 A]  
PUBLISHED: June 14, 2002 (20020614)  
INVENTOR(s): UMEBACHI AKIRA  
APPLICANT(s): ASAHI BANK LTD  
APPL. NO.: 2000-369321 [JP 2000369321]  
FILED: December 04, 2000 (20001204)  
INTL CLASS: G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a matching information recommendation technique allowing a customer to easily purchase a plurality of housing-related commodities fitted to the own necessity and desire and purchasable from the point of fortune and income or the like by recommending a plurality of pieces of housing- related commodity information matched to the attribute information of the customer .

SOLUTION: In this matching information recommendation system 1, a customer terminal group 80 usable by the customer desiring to purchase a dwelling house is connected to a partner site provided by a trader for housing-related commodities through a network. This system comprises an attribute information collection part 100 for collecting attribute information related to the customer; a multiple housing- related commodity selection part 200 for selecting a plurality of pieces of housing- related commodity information fitted to the customer according to the collected attribute information; and a multiple housing-related commodity recommendation part 300 for recommending the housing-related commodities to the customer on the basis of the selected housing-related commodity information.

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10/5/7 (Item 7 from file: 347)  
DIALOG(R) File 347:JAPIO  
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07240927 \*\*Image available\*\*  
WWW SERVER PROVIDED WITH MERCHANDISE-CONSULTING FUNCTION

PUB. NO.: 2002-109378 [JP 2002109378 A]  
PUBLISHED: April 12, 2002 (20020412)  
INVENTOR(s): KANEDA SO  
UENO YUSUKE  
APPLICANT(s): KANEDA SO  
UENO YUSUKE  
APPL. NO.: 2000-303955 [JP 2000303955]  
FILED: October 03, 2000 (20001003)  
INTL CLASS: G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a WWW server provided with a

merchandise-consulting function for quickly introducing satisfying merchandise to a person who has little knowledge of the merchandise, over the Internet.

SOLUTION: The WWW server 2 transmits, for example, a question list corresponding to a merchandise group such as a 'cleaner' to a user's computer 4 via the Internet 6. When answers to the questions are received, the answers from the user are analyzed on the basis of answer analysis data prepared preliminarily in response to the question list, and the priority information of selection evaluation element that the user should looks upon as important in the case of selecting merchandise is acquired. One, or two or more pieces of recommended merchandise are selected from among a merchandise database, based on the obtained priority information, and a merchandise list introducing those pieces of merchandise is transmitted to the user's computer 4.

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10/5/8 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07069556 \*\*Image available\*\*  
DATE AND PERIOD RELATED INFORMATION REMINDING AND RECOMMENDATION SYSTEM

PUB. NO.: 2001-297201 [JP 2001297201 A]  
PUBLISHED: October 26, 2001 (20011026)  
INVENTOR(s): HASE MASAKI  
APPLICANT(s): AOYAMA PARTNERS KK  
APPL. NO.: 2000-112994 [JP 2000112994]  
FILED: April 14, 2000 (20000414)  
INTL CLASS: G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a date and period related information reminding and recommendation system which call attention of a user by adding relative information determined by laws, commercial usage, and others to date and period information that the user inputs and performing distribution for reminding in necessary in a desired period.

SOLUTION: This date and period related information reminding and recommendation system comprises a user terminal group for inputting necessary reference time information and kind information and a system server which derives the date and period related information from the reference time information and kind information inputted from one of the user terminals connected by wire or wireless through an information transmission means and distributes and transmits information in format that the user desires to the user terminal in a desired period.

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10/5/10 (Item 10 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07055203 \*\*Image available\*\*  
CONTENTS RECOMMENDATION SYSTEM

PUB. NO.: 2001-282838 [JP 2001282838 A]  
PUBLISHED: October 12, 2001 (20011012)  
INVENTOR(s): MIYAHIRO EIICHI  
ARAKI SHINICHIRO  
YOSHIDA HIROSHI  
APPLICANT(s): KYOCERA COMMUNICATION SYSTEMS CO LTD  
APPL. NO.: 2000-096714 [JP 200096714]  
FILED: March 31, 2000 (20000331)  
INTL CLASS: G06F-017/30 ; A63F-013/12; G06F-013/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a system for which information about age, gender, address, occupation, and hobby, etc., of each user is not indispensable, and which can recommend an appropriate content for individual user without requiring advance classification of contents.

SOLUTION: A usage record device 24 records which content is used from user terminals 12-18. A content recommendation device 26, based on the usage record for each user, finds out contents used in combination, and defines the contents as a user-specific content group. In addition, based on the user-specific content groups, inclusive content groups in relation to every user are obtained. The content recommendation device 26, based on the user-specific content groups and the inclusive content groups, determines the recommended content for each user.

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10/5/29 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015011587 \*\*Image available\*\*  
WPI Acc No: 2003-072104/200307  
XRPX Acc No: N03-056292

Goods recommendation engine for e-commerce transaction, produces goods ranking chart for each customer group based on customer grouping data and corresponding goods evaluation value  
Patent Assignee: NEC CORP (NIDE )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
JP 2002334257 A 20021122 JP 2001140692 A 20010510 200307 B

Priority Applications (No Type Date): JP 2001140692 A 20010510

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2002334257 A 9 G06F-017/60

Abstract (Basic): JP 2002334257 A

NOVELTY - An evaluation unit computes evaluation value of goods for different customers and a classification unit creates a grouping data for dividing customers into different groups. A filtering engine (21) estimates goods evaluation value with respect to each grouped customer based on outputs of evaluation and classification units. A ranking unit (22) creates ranking chart for each customer group based on grouping data and evaluation data.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Goods recommendation method; and

(2) Goods recommendation program.

USE - For recommending goods to customer during e-commerce transaction.

ADVANTAGE - Enables selecting suitable goods by customer due to the provision of ranking chart.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of goods recommendation engine. (Drawing includes non-English language text).

Filtering engine (21)

Ranking unit (22)

pp; 9 DwgNo 2/11

Title Terms: GOODS; ENGINE; TRANSACTION; PRODUCE; GOODS; RANK; CHART; CUSTOMER; GROUP; BASED; CUSTOMER; GROUP; DATA; CORRESPOND; GOODS; EVALUATE; VALUE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-017/30

File Segment: EPI

10/5/38 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013918472 \*\*Image available\*\*

WPI Acc No: 2001-402685/200143

XRPX Acc No: N01-297190

Data management system for multimedia information management, provides program recommendation information to user based on users who are grouped corresponding to common interests

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001125858	A	20010511	JP 99309605	A	19991029	200143 B

Priority Applications (No Type Date): JP 99309605 A 19991029

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2001125858 A 15 G06F-013/00

Abstract (Basic): JP 2001125858 A

NOVELTY - Information about interest of each user is registered based on which users with common interest are grouped. Based on the users grouped corresponding to common interest, program recommendation information is provided to user .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Information receiver;

(b) Information management apparatus;

(c) Recording medium

USE - For managing multimedia information e.g. television, radio broadcasting, magazine, pamphlets, catalog according to user's interest.

ADVANTAGE - As program recommendation information is provided to user, wide variety of programs is viewed by users with common interest.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of information receiver in data management system. (Drawing includes non-English language text).

pp; 15 DwgNo 2/11

Title Terms: DATA; MANAGEMENT; SYSTEM; INFORMATION; MANAGEMENT; PROGRAM; INFORMATION; USER; BASED; USER; GROUP; CORRESPOND; COMMON

Derwent Class: T01

International Patent Class (Main): G06F-013/00

International Patent Class (Additional): G06F-017/30

File Segment: EPI

10/5/41 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012332107 \*\*Image available\*\*

WPI Acc No: 1999-138214/199912

XRPX Acc No: N99-101217

Goods capability information providing apparatus using wide area network for PC, copier, facsimile - informs relative comparison result and recommendation goods based on decided recommended goods

Patent Assignee: FUJI XEROX CO LTD (XERF )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11007472	A	19990112	JP 97176333	A	19970617	199912 B

Priority Applications (No Type Date): JP 97176333 A 19970617

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11007472	A	19		G06F-017/60	

Abstract (Basic): JP 11007472 A

NOVELTY - A measurement unit (6) measures the various processing time, execution frequency of process, and data for process beforehand. An acquisition unit (8) acquires the measurement condition. A calculation unit (11) computes the utilization index by comparing series of process of goods of each users with other user based on the measurement result. A determining unit decides different utilization index from group of users for high recommending goods. A notice unit informs a relative comparison result based on decided recommended goods. DETAILED DESCRIPTION - AN INDEPENDENT CLAIM is included for information providing method.

USE - For PC, copier, facsimile.

ADVANTAGE - Qualitative and optimum utilization goods with good capability are offered. DESCRIPTION OF DRAWING(S) - The figure shows goods information providing apparatus. (6) Measurement unit; (8) Acquisition unit; (11) Calculation unit.

Dwg.1/18

Title Terms: GOODS; CAPABLE; INFORMATION; APPARATUS; WIDE; AREA; NETWORK; COPY; FACSIMILE; INFORMATION; RELATIVE; COMPARE; RESULT; GOODS; BASED; DECIDE; RECOMMENDED ; GOODS

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

21/5/3 (Item 3 from file: 347)  
DIALOG(R) File 347:JAPIO  
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07465740 \*\*Image available\*\*  
**RECOMMENDATION**    **ENGINE,**    **RECOMMENDATION**    **METHOD**    **AND**    **RECOMMENDATION**  
**PROGRAM**

PUB. NO.: 2002-334257 [JP 2002334257 A]  
PUBLISHED: November 22, 2002 (20021122)  
INVENTOR(s): IKOMA YOSHIKATSU  
APPLICANT(s): NEC CORP  
APPL. NO.: 2001-140692 [JP 20011140692]  
FILED: May 10, 2001 (20010510)  
INTL CLASS: G06F-017/60 ; G06F-017/30

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **recommendation** engine and a **recommendation** method for providing a customer with information for arousing merchandise purchase desires even in the case that the number of gathered merchandise evaluation data is small and in the case that the merchandise evaluation data by the customer of a **recommendation** object are not gathered, and to provide a **recommendation** program.

SOLUTION: The **recommendation** engine is provided with the merchandise evaluation data indicating merchandise evaluations for each merchandise in each **customer**, **group** belonging data defining a **group** to which each **customer** belongs, a cooperative filtering engine **predicting** the evaluation value of the merchandise which can be **recommended** to each **customer** on the basis of the merchandise evaluation data and a **group**-by-group ranking sum-up engine preparing the ranking of the merchandise within each group on the basis of the merchandise evaluation data and the group belonging data.

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21/5/4 (Item 4 from file: 347)  
DIALOG(R) File 347:JAPIO  
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07455597 \*\*Image available\*\*  
**PREDICTION**    **SYSTEM AND METHOD FOR UTILITY CONSUMPTION**

PUB. NO.: 2002-324112 [JP 2002324112 A]  
PUBLISHED: November 08, 2002 (20021108)  
INVENTOR(s): IZUMA HIROAKI  
IDE YASUHIRO  
OZAKI HIKARI  
FUJII HAJIME  
KATO MAKOTO  
YAMADA TAKAHIRO  
APPLICANT(s): OSAKA GAS CO LTD  
APPL. NO.: 2001-127804 [JP 20011127804]  
FILED: April 25, 2001 (20010425)  
INTL CLASS: G06F-017/60 ; G06F-019/00

ABSTRACT

PROBLEM TO BE SOLVED: To present utility consumption obtained by comparing among consumers.

SOLUTION: A prediction system 1 for utility consumption comprises an input means 3, a database 4 to store inputted operating conditions and the consumption in a manner as to allow classifying in accordance with attributes and the conditions, a statistical processing means 5 to perform a statistical processing of a distribution of the consumption by conditions objected as comparisons under consideration of the consumption of the consumers having the same attributes as a single group and device a deviation value of the distribution or consumption equal to the value, a calculating means 6 to obtain the post-change consumption corresponding to the consumption or the consumption equal to the value in the distribution when changing the conditions and a presentation means 7 to present the post-change conditions and the post-change consumption utility consumption to the consumers.

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21/5/6 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07410480 \*\*Image available\*\*  
RECOMMENDATION SYSTEM AND RECOMMENDATION METHOD

PUB. NO.: 2002-278989 [JP 2002278989 A]  
PUBLISHED: September 27, 2002 (20020927)  
INVENTOR(s): GRASSO ANTONIETTA  
GLANCE NATALIE S  
MEUNIER JEAN-LUC  
APPLICANT(s): XEROX CORP  
APPL. NO.: 2001-388418 [JP 20011388418]  
FILED: December 20, 2001 (20011220)  
PRIORITY: 00 746917 [US 2000746917], US (United States of America),  
December 22, 2000 (20001222)  
INTL CLASS: G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To solve the problem that persons working in a work group do not depend on social community and chance and do not have means for detecting a new related document and sharing information of other types although they can use electronic information.

SOLUTION: A recommendation system giving item recommendation includes a memory, a device recording an item on a hard copy medium in response to a user request and a processor storing the rating of the item and generating the recommendation of the new item based on a recommendation reference. The processor stores the indicative rating of the requested item in the memory in response to the user request and judges whether item recommendation is to be generated or not based on the indicative rating and the recommendation reference. When it is matched with the recommendation reference, the recommendation system generating the recommendation of a new item solves the problem.

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21/5/7 (Item 7 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07391166 \*\*Image available\*\*  
NUMERICAL VALUE CUSTOMER MANAGING SYSTEM BY CELL GROUP

PUB. NO.: 2002-259667 [JP 2002259667 A]  
PUBLISHED: September 13, 2002 (20020913)  
INVENTOR(s): ISHIGAMI EIICHI  
SUNAGA KIYOHIKO  
APPLICANT(s): UNITY KK  
APPL. NO.: 2001-059156 [JP 20011059156]  
FILED: March 02, 2001 (20010302)  
INTL CLASS: G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide data for specifying an excellent customer, predicting the estrangement of the customer (an estrangement presumption group) and effectively contributing to an object to be propagandized by dividing the present tendencies of the customers into cell groups concerning a visit date, a visit frequency and a usage money amount and grasping the positions of the customers and the movement of the group.

SOLUTION: A numerical value customer management system is constituted by adding an usage money amount evaluation to the cell group which is obtained by dividing a table in nine where the visit date of the customer is made to be a Y axis and the visit frequency is to be an X axis. The system is also constituted of a visit date input process for inputting the visit date, a process for inputting visit times, a process for inputting the usage money mount, a dividing process for making respective elements into the cell group in multiple stages and a nine-division process for classifying seven-stage evaluations into three divisions, i.e., two upper and lower stages and a middle stage at each element in the three elements. A cell group evaluation is displayed at each stage of the stage classification analysis table of a usage money amount analysis table and a visit frequency analysis table and, then, the customers of the cell group are displayed at each administrative area on a map.

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21/5/28 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015269053 \*\*Image available\*\*  
WPI Acc No: 2003-329982/200331  
XRPX Acc No: N03-264091  
Customer purchasing potential prediction in weekly groceries, involves assigning value for business potential which is a function of behavior for group of other individuals in population for customer, based on customer data

Patent Assignee: KITTS B J (KITTS-I)  
Inventor: KITTS B J  
Number of Countries: 001 Number of Patents: 001

Patent Family:  
Patent No Kind Date Applcat No Kind Date Week  
US 20030009368 A1 20030109 US 2001682000 A 20010706 200331 B

Priority Applications (No Type Date): US 2001682000 A 20010706  
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 20030009368 A1 13 G06F-017/60

Abstract (Basic): US 20030009368 A1

NOVELTY - The data regarding a customer or vendor is accessed and a value for business potential is assigned for the customer, based on customer data. The value is a function of a behavior for a group of other individuals in a population.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for data processing system readable medium for customer purchasing potential predictions .

USE - For predicting customer purchasing potential in hotel, weekly groceries.

ADVANTAGE - Reasonably predicts the business potential of customer using transactional data without the need for surveying customers or obtaining information from third parties.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of customer potential prediction system.

pp; 13 DwgNo 1/3

Title Terms: CUSTOMER; PURCHASE; POTENTIAL; PREDICT ; WEEK; GROCERY; ASSIGN; VALUE; BUSINESS; POTENTIAL; FUNCTION; BEHAVE; GROUP; INDIVIDUAL; POPULATION; CUSTOMER; BASED; CUSTOMER; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

21/5/30 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015130958 \*\*Image available\*\*

WPI Acc No: 2003-191482/200319

XRPX Acc No: N03-151792

Conference recommendation business system in medical field, produces conference program between customers after dividing customers into groups according to customer information

Patent Assignee: CHIBA MACHIKO COOKING STUDIO YG (CHIB-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002373206	A	20021226	JP 2001182279	A	20010615	200319 B

Priority Applications (No Type Date): JP 2001182279 A 20010615

Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing Notes
JP 2002373206	A	11		G06F	-017/60	

Abstract (Basic): JP 2002373206 A

NOVELTY - A conference program is produced between the customers after dividing customer group based on customer information. The information between the customers is passed through information communication network.

USE - Used in medical fields, colleges, clinics.

ADVANTAGE - Provides substantial communication between the customers since communication function between the customers is raised.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the conference recommendation business system. (Drawing includes non-English language text).

pp; 11 DwgNo 9/9

Title Terms: CONFER; BUSINESS; SYSTEM; MEDICAL; FIELD; PRODUCE; CONFER;

PROGRAM; CUSTOMER; AFTER; DIVIDE; CUSTOMER; GROUP; ACCORD; CUSTOMER;  
INFORMATION  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
File Segment: EPI

21/5/31 (Item 4 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015076412 \*\*Image available\*\*  
WPI Acc No: 2003-136930/200313  
**Electronic commerce system using commodity recommendation and method  
for managing electronic commerce**  
Patent Assignee: KOREACOM CO LTD (KORE-N)  
Inventor: HONG J P; HUH D J; KIM M G; MIN E G; PARK G S  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applcat No Kind Date Week  
KR 2002066709 A 20020821 KR 20017038 A 20010213 200313 B

Priority Applications (No Type Date): KR 20017038 A 20010213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2002066709	A	1		G06F-017/60	

Abstract (Basic): KR 2002066709 A

NOVELTY - An electronic commerce system using a commodity recommendation and a method for managing an electronic commerce are provided to draw a user's tendency and a commodity tendency using source data necessary for analyzing a tendency of a user and source data of a commodity and using a statistics analyzing method and to display and recommend a commodity or a service adapted to the user's tendency on a monitor from the drawn tendency information when the user is connected.

DETAILED DESCRIPTION - A user system(100), a web server(200) for supplying an Internet shopping mall service, and a network(300) for connecting the user system(100) to the web server(200) are provided. The web server(200) includes the below elements. A user tendency extracting unit(1) receives user information and extracts a user's tendency. A commodity tendency extracting unit(3) receives commodity information and extracts a commodity tendency. A candidate commodity creating unit(5) compares the extracted user/commodity tendency therewith, extracts an accorded commodity item, and creates a candidate commodity group. A candidate commodity recommending unit(7) recommends a candidate commodity to the user from the candidate commodity group in accordance with a priority. A source database(11) stores user information and commodity information. A tendency information database(13) stores a user's tendency and a commodity tendency extracted from the user information and the commodity information.

pp; 1 DwgNo 1/10  
Title Terms: ELECTRONIC; SYSTEM; COMMODITY; METHOD; MANAGE; ELECTRONIC  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
File Segment: EPI

21/5/50 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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014201022 \*\*Image available\*\*

WPI Acc No: 2002-021719/200203

XRPX Acc No: N02-017090

Contents recommendation system has contents recommendation device that determines recommendation contents for every user based on contents group and comprehensive contents group obtained about all users

Patent Assignee: KYOCERA COMMUNICATION SYSTEM KK (KYOC )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001282838	A	20011012	JP 200096714	A	20000331	200203 B

Priority Applications (No Type Date): JP 200096714 A 20000331

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001282838	A	20		G06F-017/30	

Abstract (Basic): JP 2001282838 A

NOVELTY - A contents recommendation device (26) determines recommendation contents for every user based on the contents group and comprehensive contents group obtained about all the users . The contents recommendation device determines the contents utilized for every user as a group based on a utilization record .

DETAILED DESCRIPTION - A utilization recording device (24) records the contents utilized by the user terminals (12-18).

USE - For presenting suitable recommendation for every user in a system.

ADVANTAGE - Recommends suitable contents for every user without pre-classification of contents.

DESCRIPTION OF DRAWING(S) - The figure shows the components of the contents recommendation system. Drawing includes non-English language text.

User terminals (12-18)

Utilization recording device (24)

Contents recommendation device (26)

PP; 20 DwgNo 1/19

Title Terms: CONTENT; SYSTEM; CONTENT; DEVICE; DETERMINE; CONTENT; USER; BASED; CONTENT; GROUP; COMPREHENSIVE; CONTENT; GROUP; OBTAIN; USER

Derwent Class: P36; T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): A63F-013/12; G06F-013/00

File Segment: EPI; EngPI

21/5/64 (Item 37 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011659821 \*\*Image available\*\*

WPI Acc No: 1998-076729/199807

XRPX Acc No: N98-061385

Collaborative filtering system using belief network or Bayesian network - using belief network contg user attribute and user preference nodes, and determining preference having greatest likelihood of desired preference by evaluating probabilities of preference nodes given values of attribute nodes

Patent Assignee: MICROSOFT CORP (MICR-N)  
Inventor: BREESE J S; CHICKERING D M; HECKERMAN D E; HORVITZ E  
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5704017	A	19971230	US 96602238	A	19960216	199807 B

Priority Applications (No Type Date): US 96602238 A 19960216

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5704017	A	29	G06F-017/00	

Abstract (Basic): US 5704017 A

The belief system learns a belief network using both prior knowledge obtained from an expert in a given field of decision making and a database containing empirical data obtained from many people. The empirical data contains attributes of users as well as their preferences in the field of decision making. After initially learning the belief network, the belief network is relearned at various intervals when additional attributes are identified as having a causal effect on the preferences and data for these additional attributes can be gathered.

This relearning allows the belief network to improve its accuracy at predicting preferences of a user. Upon each iteration of relearning, a cluster model is automatically generated that best predicts the data in the database. After relearning the belief network a number of times, the belief network is used to predict the preferences of a user using probabilistic inference. In performing probabilistic inference, the known attributes of a user are received and the belief network is accessed to determine the probability of the unknown preferences of the user given the known attributes. Based on these probabilities, the preference most likely to be desired by the user can be predicted.

ADVANTAGE - Prior knowledge from expert in given field of decision making is used to seed clustering, producing clusters which accurately reflect data in database. Number of clusters is determined automatically, which is more reliable than manually predicting and inputting number of clusters. No distance metric is needed to reduce amount of data gathered before system can run. Non-numerical attributes are used to eliminate errors introduced into the system through transposition of non-numerical values into numerical values. Output of system is clustering model that is easily modifiable by administrator so that it can be fed back into system and improved in iteratively, leading to improved accuracy in determining preferences of user.

Dwg. 3/13

Title Terms: FILTER; SYSTEM; NETWORK; BAYESIAN; NETWORK; NETWORK; CONTAIN; USER; ATTRIBUTE; USER; PREFER; NODE; DETERMINE; PREFER; GREATER; PREFER; EVALUATE; PROBABILITY; PREFER; NODE; VALUE; ATTRIBUTE; NODE

Derwent Class: T01

International Patent Class (Main): G06F-017/00

File Segment: EPI

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File 348:EUROPEAN PATENTS 1978-2003/Apr W04

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030515,UT=20030508

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Set	Items	Description
S1	942990	GROUP???? OR SET? ? OR CLUSTER? ? OR COLLECTION? ?
S2	730873	RECORD? ? OR PROFILE? ? OR USER? ? OR CONSUMER? ? OR CUSTOMER? ? OR BUYER? ? OR PURCHASER? ? OR SHOPPER? ? OR INDIVIDUAL? ? OR PERSON? ? OR PEOPLE? ?
S3	20754	S1(5N)S2(5N)(SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S4	675618	RECOMMEND? OR PREDICT? OR GUESS??? OR SUGGEST? OR REFER? ? OR REFERRAL? ? OR REFERRING OR FORECAST??? OR PROBABILIT?
S5	1143	S3(S)S4 AND IC=G06F
S6	358	S3(S)(RECOMMEND? OR PREDICT?) AND IC=G06F
S7	340	S3(S)S4(S)SIMILAR? AND IC=G06F
S8	148	S3(S)(RECOMMEND? OR PREDICT?)(S)SIMILAR? AND IC=G06F
S9	59	S8/TI,AB,CM
S10	89	S8 NOT S9
S11	54	S10 AND IC=G06F-017
S12	35	S10 NOT S11
S13	9389	(GROUP???? OR CLUSTER? ?)(5N)S2(5N)(SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? - OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S14	208	S13(S)(RECOMMEND? OR PREDICT?) AND IC=G06F
S15	107	S14 NOT S8
S16	20	S15/TI,AB,CM
S17	87	S15 NOT S16
S18	63	S17 AND IC=G06F-017
S19	24	S17 NOT S18
S20	43323	(GROUP???? OR CLUSTER? ?)(10N)S2
S21	568	S20(S)(RECOMMEND? OR PREDICT?) AND IC=G06F
S22	362	S21 NOT (S8 OR S15)
S23	78	S22/TI,AB,CM

9/5,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00809271

Method and apparatus for item recommendation using automated collaborative filtering

Verfahren und Apparat zum Empfehlen von Artikeln unter Verwendung einer automatischen kollaborativen Filterung

Procede et appareil pour recommander des articles utilisant un filtrage collaboratif automatique

PATENT ASSIGNEE:

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AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

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PATENT (CC, No, Kind, Date): EP 751471 A1 970102 (Basic)

APPLICATION (CC, No, Date): EP 96304536 960618;

PRIORITY (CC, No, Date): US 598 950630; US 8458 951211; US 597442 960202

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/60;

ABSTRACT EP 751471 A1

A method for **recommending** items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items are also stored in memory, the item profiles associating users with the rating given to the item by that user. **Similarity** factors with respect to other users are calculated for a **user**, and these **similarity** factors are used to select a **set** of neighboring **users**. The neighboring **users** are weighted based on their respective **similarity** factors, and a rating for an item contained in the domain is **predicted**. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the **similarity** factors incorporate assigned feature weights and feature value cluster weights.

ABSTRACT WORD COUNT: 125

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 970102 A1 Published application (A1with Search Report ;A2without Search Report)

Examination: 970903 A1 Date of filing of request for examination: 970702

Withdrawal: 981230 A1 Date on which the European patent application was withdrawn: 981103

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	2096
SPEC A	(English)	EPAB97	8714

Total word count - document A 10810

Total word count - document B 0

Total word count - documents A + B 10810

...ABSTRACT A1

A method for recommending items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items are also stored in memory, the item profiles associating users with the rating given to the item by that user. Similarity factors with respect to other users are calculated for a user, and these similarity factors are used to select a set of neighboring users. The neighboring users are weighted based on their respective similarity factors, and a rating for an item contained in the domain is predicted. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the similarity factors incorporate assigned feature weights and feature value cluster weights.

9/5,K/36 (Item 33 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00794290 \*\*Image available\*\*  
METHOD AND APPARATUS FOR PROVIDING A PERSONALIZATION SERVICE ACROSS A NETWORK  
PROCEDE ET APPAREIL PERMETTANT D'OFFRIR UN SERVICE DE PERSONNALISATION SUR UN RESEAU

Patent Applicant/Assignee:

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Legal Representative:

PARK Richard (agent), 508 2nd Street, Suite 201, Davis, CA 95616, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200127782 A1 20010419 (WO 0127782)  
Application: WO 2000US27617 20001006 (PCT/WO US0027617)  
Priority Application: US 99417953 19991013

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ  
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-015/16

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 7085

English Abstract

One embodiment of the present invention provides a system for producing personalized web site content to be presented to the user of a content

provider web site (114, 115) based upon information gathered regarding the user. The system operates by receiving data sent from a remote browser (102) to a personalization server (116). This data is sent by a web page on the remote browser and includes an identifier for the user. This web page was previously sent from the content provider web site to the remote browser while the remote browser was navigating through the content provider web site. The personalization server uses the identifier to look up information related to the user in a database associated with the user based upon the interests of the user. For example, personalized web site content can include hypertext markup language (HTML) code, images or navigational options to other web locations. Next, the system sends personalized web site content from the personalization server to the remote browser so that the personalized web site content can be presented to the user.

#### French Abstract

Dans une de ses realisations, la presente invention se rapporte a un systeme de production de contenu de site web personnalise destine a etre presente a un utilisateur de site web d'un fournisseur de contenu (114, 115), qui prend en compte des informations recueillies concernant l'utilisateur. Ce systeme consiste a recevoir des donnees envoyees par un navigateur eloigne (102) a un serveur de personnalisation (116). Ces donnees sont envoyees par une page web sur le navigateur eloigne et elles comportent un identificateur associe a l'utilisateur. Cette page web a precedemment ete envoyee a partir du site web, du fournisseur de contenu vers le navigateur eloigne, alors que ce dernier naviguait sur le site web du fournisseur de contenu. Le serveur de personnalisation utilise l'identificateur pour rechercher des informations associees a l'utilisateur dans une base de donnees associee a l'utilisateur. Le contenu du site web personnalise peut, par exemple, comporter du code en langage de balisage hypertexte (HTML), des images ou des options de navigation vers d'autres localisations web. Le systeme envoie ensuite le contenu de site web personnalise du serveur de personnalisation vers le navigateur eloigne de sorte que le contenu du site web personnalise peut etre presente a l'utilisateur.

#### Legal Status (Type, Date, Text)

Publication 20010419 A1 With international search report.

Examination 20010802 Request for preliminary examination prior to end of 19th month from priority date

#### Fulltext Availability:

Claims

#### Claim

... memory that uses the information to predict the set of recommendations.  
37 The apparatus of claim 24, further comprising a prediction engine that predicts the set of recommendations based upon preferences of similar users .

38 A method for providing a personalization server that produces recommendations regarding web-related navigational options to be presented to a user of a content...46 The method of claim 38, wherein using the information to produce the set of personalized links includes using a prediction engine that selects the set of personalized links based upon preferences of similar users .

47 A method for providing personalized web site content to be presented to a user of a content provider web site based upon information gathered ...

9/5,K/45 (Item 42 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00761429

METHODS, CONCEPTS AND TECHNOLOGY FOR A VIRTUAL SHOPPING SYSTEM CAPABLE OF ASSESSING NEEDS OF A CUSTOMER AND RECOMMENDING A PRODUCT OR SERVICE BASED ON SUCH ASSESSED NEEDS

PROCEDES, CONCEPTS ET TECHNOLOGIE POUR SYSTEME D'ACHAT VIRTUEL CAPABLE D'EVALUER LES BESOINS D'UN CLIENT ET DE RECOMMANDER UN PRODUIT OU UN SERVICE SUR LA BASE DE CES BESOINS

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Application: WO 2000US14357 20000524 (PCT/WO US0014357)  
Priority Application: US 99321495 19990527

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DK DM DZ EE ES FI GB GD GE GH GM HR ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
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Main International Patent Class: G06F-017/60

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 148469

English Abstract

French Abstract

La presente invention concerne un systeme permettant de realiser des transactions commerciales virtuelles apres identification des besoins de l'utilisateur. Tout d'abord, le systeme evalue les besoins d'un utilisateur. Il genere ensuite, sur la base des besoins de l'utilisateur, une solution, qui est affichee. Un paiement est alors accepte en echange de la solution. Il convient de noter que dans le cadre du present descriptif de l'invention, ladite solution est, mais pas exclusivement, un produit ou un service.

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abstract; title not checked by the International  
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Fulltext Availability:  
Claims

Claim

... HAVING TO SELECT EACH OF THE ITEMS  
INDIVIDUALLY  
1608  
Figure 16  
DEVELOPING A USER PROFILE  
DISPLAYING A PLURALITY OF ITEMS FOR PURCHASE / 1611  
ALLOWING A USER TO SELECT A SET OF SIMILAR ITEMS TO COMPARE /  
1612  
DETERMINING A SET OF FEATURES OF THE SIMILAR ITEMS / 1613  
1614  
UTILIZING THE USER PROFILE TO DETERMINE A HIERARCHY OF THE  
FEATURES  
PRESENTING THE FEATURES IN A PRIORITIZED MANNER IN 1615  
ACCORDANCE WITH THE HIERARCHY  
1504  
Figure 16A  
PREASSOCIATING THE...TO FIND 1624  
KEYWORD MATCHES IF NO KEYWORDS MATCH  
1614  
Figure 16B  
ANALYZING USER REQUIREMENTS  
1702  
REVIEWING AVAILABLE PRODUCTS  
1704  
IF  
GENERATING AT LEAST ONE RECOMMENDED SOLUTION BASED ON THE USER 1706  
REQUIREMENTS  
DISPLAYING THE AT LEAST ONE RECOMMENDED SOLUTION  
1708  
ACCEPTING PAYMENT IN EXCHANGE FOR THE AT LEAST ONE SOLUTION  
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PREASSOCIATING ITEMS WITH KEYWORDS 1720  
SELECTING ITEMS BASED ON KEYWORD...  
  
...OF -INTEREST TO EACH USER BASED ON THE PROFILE 2302  
DATA OF THE USER  
PROVIDING INFORMATION OF INTEREST TO A PLURALITY OF USERS HAVING 2304  
SIMILAR PROFILE DATA  
i  
COLLECTING FEEDBACK FROM THE USERS ON THE PROVIDED INFORMATION 2306  
PROVIDING A SERVICE SELECTED FROM A GROUP OF SERVICES INCLUDING: 230  
MAINTAINING...

9/5,K/51 (Item 48 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00554419 \*\*Image available\*\*  
COLLABORATIVE RECOMMENDATIONS USING ITEM-TO-ITEM SIMILARITY MAPPINGS  
RECOMMANDATIONS COMMUNES A L'AIDE DE TABLES DE CORRESPONDANCE DE SIMILARITE

## **ARTICLE A ARTICLE**

Patent Applicant/Assignee:

AMAZON COM,

Inventor(s):

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JACOBI Jennifer A,  
BENSON Eric A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200017792 A1 20000330 (WO 0017792)  
Application: WO 99US20974 19990910 (PCT/WO US9920974)  
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DE DE DK DK DM EE EE ES FI FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG  
KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE  
SG SI SK SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ  
UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT  
LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/60

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 10860

### **English Abstract**

A recommendations service recommends items to individual users based on a set of items that are known to be of interest to the user, such as a set of items previously purchased by the user. The service is used to recommend products to users of a merchant's Web site (30). The service generates the recommendations using a previously-generated table (60) which maps items (62) to lists (64) of "similar" items. The similarities reflected by the table (60) are based on the collective interests of the community of users. To generate personal recommendations, the service retrieves from the table (60) the similar items lists (64) corresponding to the items known to be of interest to the user. These similar items lists (64) are appropriately combined into a single list, which is then sorted and filtered to generate a list of recommended items. Also disclosed are various methods for using the current and/or past contents of a user's electronic shopping cart to generate recommendations.

### **French Abstract**

L'invention porte sur un service de recommandations qui recommande des articles a des utilisateurs individuels sur la base d'un ensemble d'articles connus et presentant un interet pour l'utilisateur tel qu'un ensemble d'articles deja achetes par l'utilisateur. Le service est utilise pour recommander des produits aux utilisateurs d'un site (30) Web commercial. Le service genere les recommandations a l'aide d'un tableau (60) genere anterieurement qui met en correspondance des articles (62) avec des listes (64) d'articles similaires . Les similarites renvoyees par le tableau (60) sont basees sur les interets communs de l'ensemble des utilisateurs. Pour generer des recommandations personnelles, le service extrait du tableau (60) les listes (64) d'articles similaires correspondant aux articles presentant un interet pour l'utilisateur. Ces listes (64) d'articles similaires sont combinees de maniere appropriee sous forme d'une liste unique qui est ensuite triee et filtree de facon a generer une liste d'articles recommandes. L'invention porte egalement sur des procedes d'utilisation de contenus actuels et/ou passes d'une carte d'achat electronique d'utilisateur pour generer des recommandations.

### **Fulltext Availability:**

Claims

Claim

... In a computer system that provides access to a database of items, a system for recommending items to users, comprising:  
a first process which determines **similarities** between items by at least analyzing historical data that reflects item interests of a community of users, the first process generating a data structure which maps items to sets of **similar** items; and  
a second process which generates personal **recommendations** for a **user** by accessing the data structure to identify **similar** items **sets** that **correspond** to items known to be of interest to the **user**, and by combining the identified **similar** items **sets** to generate a list of **recommended** items.

18 The system of Claim 17, wherein the first process determines a similarity between a pair of items, item-A and item-B, by...database of items that are available for purchase, comprising:  
for each of a plurality of items that are known to be of interest to the **user**, identifying a **set** of items that are deemed to be **similar** to the respective item based at least upon a collective analysis of purchase histories of a plurality of users; and combining the resulting plurality of...

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00450368  
METHOD AND APPARATUS FOR EFFICIENTLY RECOMMENDING ITEMS USING AUTOMATED COLLABORATIVE FILTERING AND FEATURE-GUIDED AUTOMATED COLLABORATIVE FILTERING  
PROCEDE ET APPAREIL SERVANT A RECOMMANDER DES ARTICLES DE MANIERE EFFICACE A L'AIDE D'UN FILTRAGE COOPERATIF AUTOMATISE ET D'UN FILTRAGE COOPERATIF AUTOMATISE A FONCTIONS DE GUIDAGE

Patent Applicant/Assignee:

FIREFLY NETWORK INC,

Inventor(s):

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BERGH Christopher P,  
RITTER David Henry,  
KLEIN Saul Charles,  
SHARDANAND Upendra,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9840832 A2 19980917

Application: WO 98US5035 19980313 (PCT/WO US9805035)

Priority Application: US 97818533 19970314; US 97818515 19970314; US 97828631 19970331; US 97828632 19970331

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NE SN TD TG  
Main International Patent Class: G06F-017/30  
Publication Language: English  
Fulltext Availability:  
    Detailed Description  
    Claims  
Fulltext Word Count: 23259

English Abstract

A method for **recommending** items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items may also be stored in memory, the item profiles associating users with the rating given to the item by that user or inferred for the user by the system. The user profiles include additional information relating to the user or associated with the rating given to an item by the user. Profiles of those users are accessed and the ratings are used to calculate **similarity** factors with respect to other users. The **similarity** factors, sometimes in connection with confidence factors, are used to select a **set** of neighboring **users**. The neighboring **users** are weighted based on their respective **similarity** factors, and a rating for an item contained in the domain is **predicted**. An object for providing isolated, hierarchical data storage can be used in a method for **recommending** an item to one of a plurality of users. The data object abstracts an associated physical memory element and provides an interface for storing data and retrieving data from the physical memory element. A system for enabling an information marketplace includes a central server which stores data in a memory element. The data may or may not be encrypted. Regardless of whether the data is encrypted the server may also store a table which associates data elements and nodes with an authorization value. If a node requests data for which the authorization value in the table gives the node authorization to access, the server transmits the data to the node. If the data is encrypted, the server may transmit the encrypted data or it may decrypt the data for the node before transmission.

French Abstract

L'invention concerne un procede servant a recommander des articles a des utilisateurs a l'aide de profils d'utilisateurs de magasins cooperatifs automatises, qui ont trait a des articles stockes dans une memoire. Des profils d'articles peuvent egalement etre stockes dans la memoire, les profils d'articles associant des utilisateurs a une cotation qu'un utilisateur donne attribue a l'article, ou a une cotation que le systeme attribue par deduction a l'utilisateur. Les profils d'utilisateur comportent des informations supplementaires concernant l'utilisateur, ou des informations associees a la cotation attribuee par ce dernier a un article. Des profils d'utilisateurs sont recuperes et les cotations sont utilisees pour calculer des facteurs de similitude avec d'autres utilisateurs. Les facteurs de similitude, parfois lies a des facteurs de confiance, sont utilises pour selectionner un ensemble d'utilisateurs voisins. Les utilisateurs voisins sont ponderes d'apres leurs facteurs de similitude respectifs en vue d'obtenir une prevision de cotation pour un article faisant partie du domaine considere. Un objet servant a fournir un stockage de donnees isolees, hierarchiques peut etre utilise dans un procede de recommandation d'article a un utilisateur donne. L'objet de donnees est associe a un element de memoire physique et fournit une interface pour stocker et recuperer des donnees de l'element de memoire physique. Un systeme permettant d'activer un marche d'informations comporte un serveur central stockant des donnees dans un element de memoire. Les donnees peuvent etre chiffrees ou non chiffrees; quelles qu'elles soient, le serveur peut egalement stocker un tableau associant des elements de donnees et des noeuds a une valeur d'autorisation. Si un

noeud demande des donnees pour lesquelles la valeur d'autorisation du tableau accorde un acces, le serveur transmet les donnees au noeud. Si les donnees sont chifrees, le serveur peut transmettre les donnees chifrees ou dechiffrer celles-ci pour le noeud avant de les transmettre.

#### English Abstract

A method for **recommending** items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items may also be stored in...

...or associated with the rating given to an item by the user. Profiles of those users are accessed and the ratings are used to calculate **similarity** factors with respect to other users. The **similarity** factors, sometimes in connection with confidence factors, are used to select a **set** of neighboring **users**. The neighboring **users** are weighted based on their respective **similarity** factors, and a rating for an item contained in the domain is **predicted**. An object for providing isolated, hierarchical data storage can be used in a method for **recommending** an item to one of a plurality of users. The data object abstracts an associated physical memory element and provides an interface for storing data...

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DIALOG(R)File 349:PCT FULLTEXT  
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00442671 \*\*Image available\*\*  
**IMPROVED METHOD AND APPARATUS FOR ITEM RECOMMENDATION USING AUTOMATED COLLABORATIVE FILTERING**  
**PROCEDE ET UN DISPOSITIF AMELIORES PERMETTANT DE RECOMMANDER DES ARTICLES GRACE A UN SYSTEME AUTOMATISE DE FILTRAGE COOPERATIF**

Patent Applicant/Assignee:

FIREFLY NETWORK INC,

Inventor(s):

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LASHKARI Yezdesard Z,  
MCNULTY John E,

Patent and Priority Information (Country, Number, Date):

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Main International Patent Class: G06F-017/60

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13659

#### English Abstract

A method for **recommending** items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items may also be stored in memory, the item profiles

associating users with the rating given to the item by that user or inferred for the user by the system. The user profiles include additional information relating to the user or associated with the rating given to an item by the user. **Similarity** factors with respect to other users, and confidence factors associated with the **similarity** factors, are calculated for a user and these **similarity** factors, in connection with the confidence factors, are used to select a **set** of neighboring **users**. The neighboring **users** are weighted based on their respective **similarity** factors, and a rating for an item contained in the domain is **predicted**. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the **similarity** factors incorporate assigned feature weights and feature value cluster weights.

#### French Abstract

L'invention concerne un procede permettant de recommander des articles a des utilisateurs grace a un systeme automatise de filtrage cooperatif, qui enregistre dans sa memoire des profils d'utilisateur, etablis sur la base des cotes que lesdits utilisateurs attribuent a des articles. On peut egalement stocker en memoire des profils d'articles, qui associent des utilisateur a la cote donnee a l'article par l'utilisateur en question ou a la cote que le systeme a deduit pour le compte de l'utilisateur. Les profils d'utilisateur comprennent des informations supplementaires qui portent sur l'utilisateur ou qui sont associees a la cote que l'utilisateur a attribuee a un article donnee. On calcule, pour chaque utilisateur, des facteurs de similitude par rapport a d'autres utilisateurs, ainsi que des facteurs de vraisemblance associes auxdits facteurs de similitude, qui sont utilises pour selectionner un ensemble d'utilisateur apparentes. On pondere ces utilisateurs apparentes en prenant en compte leurs facteurs de similitude respectifs, et on calcule une cote pour un article du domaine concerne. Selon un mode de realisation, les articles du domaine concerne sont connus par des caracteristiques. Selon ce mode de realisation, les valeurs correspondant a ces caracteristiques peuvent etre traitees en grappe, les facteurs de similitude integrant des ponderations de caracteristiques affectees et des ponderations en grappes des valeurs de caracteristiques.

#### English Abstract

A method for **recommending** items to users using automated collaborative filtering stores profiles of users relating ratings to items in memory. Profiles of items may also be stored in...

...by the system. The user profiles include additional information relating to the user or associated with the rating given to an item by the user. **Similarity** factors with respect to other users, and confidence factors associated with the **similarity** factors, are calculated for a user and these **similarity** factors, in connection with the confidence factors, are used to select a **set** of neighboring **users**. The neighboring **users** are weighted based on their respective **similarity** factors, and a rating for an item contained in the domain is **predicted**. In one embodiment, items in the domain have features. In this embodiment, the values for features can be clustered, and the **similarity** factors incorporate assigned feature weights and feature value cluster weights.

9/5,K/55 (Item 52 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00441624 \*\*Image available\*\*

**METHOD AND APPARATUS FOR PREDICTING THERAPEUTIC OUTCOMES  
PROCEDE ET DISPOSITIF POUR PREVOIR DES RESULTATS THERAPEUTIQUES**

Patent Applicant/Assignee:

CHIRON CORPORATION,

Inventor(s):

COMANOR Lorraine,

MINOR James M,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9832088 A1 19980723

Application: WO 98US633 19980113 (PCT/WO US9800633)

Priority Application: US 97784206 19970115

Designated States: AU JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-019/00

International Patent Class: G06F-17:18

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 15724

English Abstract

Methods, software, and systems for evaluating the response of a patient afflicted with a disease to a therapeutic regimen for the disease are described. In one aspect, the present methods, systems, and software are provided for evaluating the utility of a treatment regimen for treating a patient afflicted with a disease. In one embodiment of this aspect, the value of at least one diagnostic variable relating to a statistical model describing the utility of the treatment regimen is determined. The statistical model is derived using a robustified similarity metric least squares (SMILES) analysis of the response to the treatment regimen which has been adapted to include discriminant and logistical analysis. The value of the diagnostic variable is then applied to the model to provide an estimated utility of the treatment regimen in treating the patient. Using the methods, software, and apparatus described herein, robust, statistically significant models of patient responsiveness that reduce the problems associated with present treatment response prediction methods that are brittle and oversimplify the complex interactions among treatment variables can assist patients and clinicians in determining therapies.

French Abstract

L'invention concerne des procedes, des logiciels et des systemes pour evaluer la reponse d'un patient atteint d'une maladie, a un schema therapeutique propre a cette maladie. Dans un aspect de l'invention, ces procedes, systemes et logiciels permettent d'evaluer l'utilite d'un schema therapeutique pour traiter un malade. Dans un mode de realisation de cet aspect, la valeur d'au moins une variable de diagnostic concernant un modele statistique decrivant l'utilite du schema du traitement est determine. Le modele statistique est derive en utilisant une analyse tres etoffee des reponses au schema de traitement fondee sur les mesures de similarites des moindres carres (SMILES), adaptee de maniere a comprendre une analyse discriminante et logistique. La valeur de la variable de diagnostic est ensuite appliquee au modele pour obtenir une estimation d'utilite du schema therapeutique dans le cadre du traitement du patient. L'utilisation de ces procedes, logiciels et dispositifs peut aider les patients et les cliniciens a determiner des traitements grace a des modeles etoffes, statistiquement significatifs de la faculte de reponse des patients, reduisant les problemes associes aux methodes de prevision actuelles de reponses aux traitements, qui sont peu fiables et simplifient exagerement les interactions complexes entre les variables therapeutiques.

Fulltext Availability:

Claims

Claim

... null data.

50 The computer program product of claim 49, wherein said program code devices are further configured to cause a computer to perform a similarity -metric least squares (SMILES) analysis of said standardized data, said SMILES analysis including the sub-steps of  
a) defining nodes from said data;  
b) determining a distance from each point of said set of data corresponding to an individual who has been treated using said treatment regimen to each of said nodes to derive thereby a set of distances;  
c) determining a set of similarity values using said set of distances;  
d) regressing on said set of similarity values to obtain thereby a set of predicted outcome values and a set of weighting coefficients; and  
e) regressing on said set of predicted outcome values and set of weighting coefficients to provide thereby said robustified model.

SUBSTITUTE SHEET (rule 26

1 The computer program product of claim 50...

9/5,K/57 (Item 54 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00360816 \*\*Image available\*\*

COMPUTER-IMPLEMENTED METHOD FOR PROFILING MEDICAL CLAIMS

PROCEDE INFORMATIQUE SERVANT A ETABLIR UN PROFIL DES RECLAMATIONS AU TITRE DE FRAIS MEDICAUX

Patent Applicant/Assignee:

SYMMETRY HEALTH DATA SYSTEMS INC,

Inventor(s):

DANG Dennis K,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9701141 A1 19970109

Application: WO 96US10787 19960624 (PCT/WO US9610787)

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Main International Patent Class: G06F-015/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 21067

English Abstract

A computer-implemented method for profiling medical claims to assist health care managers in determining the cost-efficiency and service quality of health care providers. The method allows an objective means for measuring and quantifying health care services. An episode treatment group (ETG) is a patient classification unit which defines (64) groups that are clinically homogeneous (similar cause of illness and treatment) and statistically stable. The ETG grouper methodology uses service or segment level claim data as input data and assigns (62) each service to the appropriate episode. The program identifies concurrent and recurrent

episodes, flags records, creates new groupings, shifts groupings for changed conditions, selects the most recent claims, resets windows, makes a determination if the provider is an independent lab and continues to collect information until an absence of treatment is detected.

#### French Abstract

Le procede informatique decrit dans cette invention permet d'établir un profil des reclamations au titre de frais medicaux, afin d'aider les gestionnaires des soins de sante a determiner le rapport cout-efficacite et la qualite de service des fournisseurs de soins de sante. Il offre en outre un moyen objectif, de mesurer et de quantifier les services de sante. Un groupe de traitement d'episodes (GTE) est une unite de classification des patients qui definit des groupes (64) cliniquement homogenes (cause de maladie et traitement similaires) et statistiquement stables. La methode de groupement GTE utilise comme donnees d'entree des donnees relatives aux reclamations au niveau d'un service ou d'un secteur et associe (62) chaque service a l'episode approprie. Le programme identifie les episodes concurrents et recurrents, attribue des indicateurs aux registres, cree de nouveaux groupages, deplace les groupages en fonction des changements de conditions cliniques, selectionne les reclamations les plus recentes, remet a l'état initial les fenetres, determine si le fournisseur est un laboratoire independant et continue a recueillir des informations jusqu'à la detection d'une absence de traitement.

#### Fulltext Availability:

Claims

#### Claim

... lab record along with other data linking both record types. The system also includes a revision of the system's specialist record and the general **recommendation** from an earlier work for more explicit use in information management. The Tawil patent, U.S. Patent No. 5,225,976, issued in 1993, discloses...base interpreter applies the knowledge base using the rules specified. The database can be updated as new methods of inappropriate coding are discovered. The system **recommends** appropriate CPT codes or **recommends** pending the claims until additional information is received. The **recommendations** are based on the decision rules that physician reviewers have already used on a manual basis. The Cummings patent, U.S. Patent No. 5,3...

...the patients employers and banks. The system also integrates all aspects of the optimization of health-inducing diet and life style factors and makes customized **recommendations** for health-enhancing practices. By pre-certifying patients and procedures, the system enhances health care efficiency and reduces overhead costs. The Dome patent, U.S....APGs) are a patient classification system designed to explain the amount and type of resources used in an ambulatory visit. Patients in each APG have **similar** clinical characteristics and **similar** resource use and cost. Patient characteristics should relate to a common organ system or etiology. The resources used are constant and 1 5 **predictable** across the patients within each APG. This system is an encounter-based system because it looks at only one ...and quantifying health care services based upon episode treatment groups (ETGs). An episode treatment group (ETG) is a clinically homogenous and statistically stable group of **similar** illness etiology and therapeutic treatment. ETG grouper method uses service or segment-level claim data as input data and assigns each service to the appropriate...Groups (ETGs) are used to define the basic analytical unit in the computer-implemented method of the present invention. ETGs are episode based and conceptually **similar** to Diagnostic Related Groups

(DRGs), with a principal difference being that DRGs are inpatient only. ETGs encompass both inpatient and outpatient treatment. Using ETGs as...

9/5,K/58 (Item 55 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00247299 \*\*Image available\*\*  
**MACHINE LEARNING WITH A RELATIONAL DATABASE**  
**APPRENTISSAGE MACHINE A BASE DE DONNEES RELATIONNELLES**  
Patent Applicant/Assignee:  
INFERENCE CORPORATION,  
Inventor(s):  
ALLEN Bradley Paul,  
Patent and Priority Information (Country, Number, Date):  
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LU MG MN MW NO NZ PL PT RO RU SD SE SK UA VN AT BE CH DE DK ES FR GB  
GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG  
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International Patent Class: G06F-15:40  
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Claims  
Fulltext Word Count: 6057

#### English Abstract

A machine learning system which operates in conjunction with a relational database. The system may (1) examine a selected entry in the database, (2) query the database for a set of entries which are representative of the selected entry, and (3) predict a value for one or more fields of the selected entry in response to the set of representative entries. The system may perform these steps repeatedly, and may evaluate each entry and record an indication of accuracy or utility (or other values) of that entry for predicting one or more fields. The system may also implement a case-based reasoning system, or an autonomous learning system, with a relational database. A system for error-checking and correlating entries and fields in a relational database. The predicted values for one or more fields of the selected entry may be compared with the actual values. The system may note field values which differ too much from predicted as possibly erroneous (or at least as data which should be checked). The system may "fill in" fields with the predicted values if actual values are missing or distrusted. Occasional or periodic error-checking and selective replacement of erroneous data may provide a self-repairing database. The system may also note fields which are easy to predict as redundant, may note tuples of fields which are strongly correlated as causally related, or may note fields are difficult to predict as requiring other data for good prediction.

#### French Abstract

Système d'apprentissage machine, fonctionnant conjointement avec une base de données relationnelles. Le système peut (1) examiner une entrée choisie dans la base de données, (2) interroger la base de données à propos d'un ensemble d'entrées représentatives de l'entrée choisie, et (3) prédire une valeur pour un ou plusieurs champs de l'entrée choisie en réponse à l'ensemble d'entrées représentatives. Le système peut effectuer

ces etapes de maniere repetees et peut evaluer chaque entree et enregister une indication de la precision ou de l'utilite (ou d'autres valeurs) de cette entree afin de predire un ou plusieurs champs. Ce systeme peut egalement appliquer un systeme de raisonnement a base de cas, ou un systeme d'apprentissage autonome, avec une base de donnees relationnelles. L'invention se rapporte egalement a un systeme de verification d'erreur et de correlation d'entrees et de champs dans une base de donnees relationnelles. Les valeurs predites pour un ou plusieurs champs de l'entree choisie peuvent etre comparees avec les valeurs reelles. Le systeme peut relever les valeurs de champ qui different trop des valeurs predites comme etant eventuellement erronees (ou tout au moins comme des donnees necessitant une verification). Le systeme peut "remplir" les champs avec les valeurs predites si les valeurs reelles sont manquantes ou ne sont pas fiables. Une verification d'erreur occasionnelle ou periodique et le remplacement selectif de donnees erronees permet d'obtenir une base de donnees a reparation autonome. Le systeme peut egalement relever des champs dont la prediction est trop aisee comme etant redondants, peut relever des rangees de champs qui sont fortement correlees comme presentant une relation causale, on peut relever des champs trop difficiles a predire comme necessitant d'autres donnees pour leur prediction adequate.

Fulltext Availability:

Claims

Claim

... designating a selected record from among a plurality of records in a database; means for composing a search designation in response to said selected record and in response to a set of similarity tables; means for applying said search designation to said database to produce a search set of records; means for choosing a predictive record in response to an evaluation field found in each record in said search set; means for comparing a predicted value from said predictive record with an actual value from said selected record; and means for updating said evaluation field in said predictive record.

14 Apparatus comprising

means for updating a database of records, said means for updating comprising (1) choosing a predictive record from...the steps of designating a selected record from among a plurality of records in a database; composing a search designation in response to said selected record and in response to a set of similarity tables; applying said search designation to said database to produce a search set of records; choosing a predictive record in response to an evaluation field found in each record in said search set; comparing a predicted value from said predictive record with an actual value from said selected record; and updating said evaluation field in said predictive record.

34 A method comprising the steps of  
repeatedly updating a database of records until  
said database remains substantially unchanged, wherein  
said step of updating...

9/5,K/59 (Item 56 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00220616 \*\*Image available\*\*  
**DIRECT DATA BASE ANALYSIS, FORECASTING AND DIAGNOSIS METHOD**  
**PROCEDE DE DIAGNOSTIC ET DE PREVISION BASE SUR UNE ANALYSE DIRECTE D'UNE**  
**BASE DE DONNEES**  
Patent Applicant/Assignee:  
PATTERN RECOGNITION L P,  
Inventor(s):  
FREY Peter W,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9217853 A2 19921015  
Application: WO 92US2757 19920406 (PCT/WO US9202757)  
Priority Application: US 91115 19910405  
Designated States: AT AU BE CA CH DE DK ES FR GB GR IT JP LU MC NL SE  
Main International Patent Class: G06F-015/40  
Publication Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 9051

#### English Abstract

A method for analyzing records of a data base by selecting a target measure related to a selected outcome, identifying data in known records of the data base for use as predictor variables, grouping selected ones of the predictor variables, producing derived values of the target measure for different combinations of the predictor variables for each group, identifying the derived values for a test record, identifying a selected number of known records that are most similar to the test record with respect to the derived values, identifying the value of the selected outcome of the selected most similar known records, and using that value for predicting a selected outcome for the test record.

#### French Abstract

Procede d'analyse des registres d'une base de donnees, consistant a choisir une mesure cible associee a un resultat selectionne, a identifier des donnees contenues dans des registres connus de la base de donnees et destinees a etre utilisees comme des variables de prediction, a regrouper certaines des variables de prediction choisies, a produire des valeurs derivees de la mesure cible pour differentes combinaisons des variables de prediction pour chaque groupe, a identifier les valeurs derivees pour un registre d'essai, a identifier un nombre choisi de registres connus qui presentent la plus grande similarite avec le registre d'essai par rapport aux valeurs derivees, a identifier la valeur du resultat selectionne des registres connus selectionnes presentant la plus grande similarite, et a utiliser cette valeur pour predire un resultat selectionne pour le registre d'essai.

Fulltext Availability:  
Claims

Claim

occurs when other techniques, such as modeling, are used. The predictive values produced in accordance with the present invention are further enhanced since the test case is compared to the actual data making up the data...

...providing information respecting said selected outcome in a plurality of reference records forming a reference database; selecting from the identified attribute data of the reference records one or more groups of said different attribute data; producing a set of derived data expressed is in equivalent units of measurement from each of said groups of different attribute data, each of said sets of derived data having values derived from different combinations...reference records; identifying values of the derived data for the test record; identifying a selected number of reference records having values of derived data most similar to the values of the derived data for the test record; identifying outcome data for the selected number of reference records; and providing information about...

...claimed in Claim I wherein each set of derived data is expressed in units of measurement having values corresponding to the expected outcome to be predicted ,  
3\* A method as claimed in claim 1 including the steps of:  
identifying for each set of derived data different logical combinations of reference record...

...in each set for each said different combination.  
4\* A method as claimed in Claim 3 including the steps of: .1 determining for each reference record the logical combination of attribute data of that record for each set of derived data, and identifying for each reference record the value of the derived data in each set corresponding to said logical combination of attribute data.  
56 A method as claimed in Claim 4 including the steps of:  
determining for the test record the logical combination of attribute data of that record for each set of derived data, and identifying for the test record the value of the derived data in each set corresponding to said logical combination of attribute data.  
6e A method as claimed in Claim 5 including the step of:  
comparing the values of the derived data in each set thereof for each reference record with the value of the derived data in the corresponding set for the test record . @33  
7 A method as claimed in Claim 6 including the step of:

11/5,K/7 (Item 7 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00974152

A method and apparatus for forecasting future values of a time series  
Verfahren und Anordnung zur Voraussage zukünftiger Werte einer Zeitreihe  
Procede et dispositif de prediction des valeurs futurs d'une serie  
chronologique

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 883075 A2 981209 (Basic)  
EP 883075 A3 990127

APPLICATION (CC, No, Date): EP 98303903 980518;

PRIORITY (CC, No, Date): US 869900 970605; GB 9721698 971010

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/60 ; G06F-017/00 ; H04L-012/56;  
H04Q-011/04

ABSTRACT EP 883075 A2

A method of predicting at least one future value of a time series of data using a neural network by inputting information about a time such as the current time, into the neural network. For example, bandwidth levels can be predicted to forecast when bandwidth levels will exceed capacity or previously agreed threshold levels. The agreed levels may be specified, for example, in a service level agreement between a service provider and a customer. The predictor also predicts, how much excess there will be and how long this will occur for. This information is provided to the service provider/customer and also can be provided to an agent which comprises a computer system. This agent negotiates on behalf of the service provider (for example) and in this way new terms for an agreement between the two parties is obtained

ABSTRACT WORD COUNT: 139

LEGAL STATUS (Type, Pub Date, Kind, Text):

Assignee: 000927 A2 Transfer of rights to new applicant: Nortel  
Networks Limited (3029040) World Trade Center  
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Examination: 20000412 A2 Date of dispatch of the first examination report: 20000228  
Change: 020911 A2 Legal representative(s) changed 20020724  
Assignee: 020911 A2 Transfer of rights to new applicant: Cerebrus Solutions Limited (4164540) Astra House Edinburgh Way Harlow CM20 2BN GB  
Application: 981209 A2 Published application (A1with Search Report ; A2without Search Report)  
Examination: 981209 A2 Date of filing of request for examination: 980615  
Change: 990120 A2 Obligatory supplementary classification (change)  
Search Report: 990127 A3 Separate publication of the European or International search report  
\*Assignee: 990714 A2 Applicant (name, address) (change)  
LANGUAGE (Publication, Procedural, Application): English; English; English  
FULLTEXT AVAILABILITY:  
Available Text Language Update Word Count  
CLAIMS A (English) 9850 1456  
SPEC A (English) 9850 10419  
Total word count - document A 11875  
Total word count - document B 0  
Total word count - documents A + B 11875

INTERNATIONAL PATENT CLASS: G06F-017/60 ...

... G06F-017/00

...SPECIFICATION he is able to make efficient and cost effective use of his communications network resources. The same method can be used by different types of customer who have different requirements and priorities by adjusting the set of actions and criteria in the customer 's agent. Similarly , the service provider's agent can be modified.

Brief description of the drawings

Figure 1 is a general schematic diagram of an arrangement for predicting...

11/5,K/10 (Item 10 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00905133

Method and system for selecting an information item

Verfahren und System zum Auswählen eines Informarionsgegenstandes

Procede et dispositif pour selectionner un article d'information

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PATENT (CC, No, Kind, Date): EP 827063 A1 980304 (Basic)

EP 827063 B1 021113

APPLICATION (CC, No, Date): EP 96202385 960828;

PRIORITY (CC, No, Date): EP 96202385 960828

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/00 ; G06F-017/30

CITED REFERENCES (EP B):

PROCEEDINGS OF THE ANNUAL INTERNATIONAL ACM SIGIR CONFERENCE ON RESEARCH AND DEVELOPMENT IN INFORMATION RETRIEVAL, COPENHAGEN, JUNE 21 - 24, 1992, no. CONF. 15, 21 June 1992, BELKIN N; INGWERSEN P; PEJTERSEN A M, pages 318-329, XP000486900 CUTTING D R ET AL: "SCATTER/GATHER: A CLUSTER-BASED APPROACH TO BROWSING LARGE DOCUMENT COLLECTIONS";

ABSTRACT EP 827063 A1

A system for enabling a user to select an information item from a set of information items displays a classification scheme comprising categories and sub-categories. After selection of a category by the user, the system modifies the displayed classification scheme by displaying non-selected categories and sub-categories in a way that is dependent on the selected category. The modified scheme then comprises sub-categories that are relevant to the non-selected category, thereby helping the user to find information of interest, without overwhelming the user with too many sub-categories.

ABSTRACT WORD COUNT: 87

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 010221 A1 Date of dispatch of the first examination report: 20010103

Application: 980304 A1 Published application (A1with Search Report ;A2without Search Report)

Grant: 021113 B1 Granted patent

Examination: 981104 A1 Date of filing of request for examination: 980904

Change: 981118 A1 Designated Contracting States (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199810	904
CLAIMS B	(English)	200246	804
CLAIMS B	(German)	200246	806
CLAIMS B	(French)	200246	825
SPEC A	(English)	199810	6441
SPEC B	(English)	200246	6174
Total word count - document A			7346
Total word count - document B			8609
Total word count - documents A + B			15955

INTERNATIONAL PATENT CLASS: G06F-003/00 ...

... G06F-017/30

...SPECIFICATION to be more responsive in advising library users. It also enables library users to advise each other.

The Smart card may also help to identify people with similar interests.

For example accessing 'special interest groups' may reveal that there is:

- a list of recommended books for the local angling club,
- new sources of information about Greece (videos, books, songs on CD) are displayed in the Travel section

- a print...

...SPECIFICATION to be more responsive in advising library users. It also enables library users to advise each other.

The Smart card may also help to identify people with similar interests. For example accessing 'special interest groups' may reveal that there is:

- a list of recommended books for the local angling club,
- new sources of information about Greece (videos, books, songs on CD) are displayed in the Travel section
- a print...

11/5,K/20 (Item 10 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00876806 \*\*Image available\*\*

**COLLABORATIVE FILTERING**

**FILTRAGE COOPERATIF**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200210954 A2-A3 20020207 (WO 0210954)

Application: WO 2001GB3383 20010727 (PCT/WO GB0103383)

Priority Application: GB 200018463 20000727; GB 200135 20010102; GB  
200113334 20010601; GB 200113335 20010601

Designated States: AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY  
BZ CA CH CN CO CR CU CZ (utility model) CZ DE (utility model) DE DK DM DZ  
EC EE (utility model) EE ES FI (utility model) FI GB GD GE GH GM HR HU ID  
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ  
NO NZ PL PT RO RU SD SE SG SI SK (utility model) SK SL TJ TM TR TT TZ UA  
UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 75341

**English Abstract**

A method of filtering data to predict an observation about an item for a

*date no  
30/09*

particular case is provided in which: a set of data representing actual observations about a plurality of items for a plurality of different cases is modelled as a function of a plurality of case and item profiles, each profile being a set of parameters comprising at least one hidden metrical variable, the parameters defining characteristics of the respective case or item; a best fit of the function to the data is found in order to find the values of the item profiles; and the profiles found are used together with the function to predict an observation for a particular case about one or more items for which data is not available for that case.

#### French Abstract

L'invention se rapporte à un procédé de filtrage de données aux fins de la prediction d'une observation relative à un article pour un cas particulier. Selon ledit procédé, un ensemble de données représentant des observations réelles relatives à une pluralité d'articles pour une pluralité de cas différents est modélisé sous la forme d'une fonction d'une pluralité de profils de cas et d'articles, chaque profil étant un ensemble de paramètres comportant au moins une variable métrique cachée, lesdits paramètres définissant des caractéristiques du cas ou article respectif; une meilleure adéquation de la fonction aux données est recherchée de manière à trouver les valeurs des profils d'articles; et les profils trouvés sont utilisés en association avec la fonction pour prédire une observation pour un cas particulier relatif à un ou plusieurs articles pour lesquels les données ne sont pas disponibles pour ledit cas.

#### Legal Status (Type, Date, Text)

Publication 20020207 A2 Without international search report and to be republished upon receipt of that report.  
Examination 20020418 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20030313 Late publication of international search report  
Republication 20030313 A3 With international search report.  
Republication 20030313 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

#### Main International Patent Class: G06F-017/30

#### Fulltext Availability:

#### Detailed Description

#### Detailed Description

... from previous site visits will be retrieved and used when the user logs on in the future.

one known filtering method, memory based reasoning (MBR), correlates the preferences of users in the data set for various items with preferences provided by the user for some of the items in the data set. The system then recommends to the user other items that similar users in the data set liked. However, this method can be slow if all other users in the data set are used to make a recommendation, involves losing information if only a subset is used, and is subject to known sources of inaccuracy such as how to weight the preferences of each of a set of very similar users since the informational content of each is low. Consequently, the method is disadvantageous (and may not be practical) in situations where there is a large data set, i.e. a large

number of users recommending a large number of items.

The method is also disadvantageous in that an operator cannot see how the recommendations made correspond to the dataset. This...  
...situations where transparency of the recommendations made is required.

one solution which has been proposed to this problem is the use of clustering techniques. Thus, users having similar preferences are grouped into clusters and the probability of a user belonging to any one cluster is calculated so that a weighting can be assigned to each item to be recommended to the user. However, when clustering users into groups, it is assumed that all users in a cluster or group have the same rating for...inventive in its own right and so, from a further aspect, the present invention provides a method of filtering data to find items which are similar to an item specified by a user, in which a set of data representing observations about a plurality of items for a plurality of cases is obtained, a function which models the data set is used...

...item profiles each containing a set of parameters representing characteristics of the item and at least one hidden metrical variable, and wherein items which are similar to a specified item are found by comparing the item profile of the specified item to other item profiles.

In a further alternative embodiment, the...

11/5,K/23 (Item 13 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00858334

PRODUCT BROKERING METHOD AND SYSTEM

PROCEDE ET SYSTEME DE COURTAGE D'UN PRODUIT

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200190995 A2 20011129 (WO 0190995)

Application: WO 2001US14913 20010509 (PCT/WO US0114913)

Priority Application: US 2000205682 20000519; US 2001839498 20010420

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
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Main International Patent Class: G06F-017/60

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 15096

English Abstract

French Abstract

Legal Status (Type, Date, Text)

Publication 20011129 A2 With declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority.

Examination 20020214 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... single product lessens the enjoyment of the shopping expetience.

[0013] A 'people fflre you. liked" display on product-brokering websites epitomizes the second type of recommendation system, collaborative filtering. By collecting information fтолn many users regarding their preferences, collaborative-filtering systems identify users with similar tastes. When a new user gives examples of his interests, the recommendation system. matches han to other users with similar interests. Then, ft recommends products that these others Eked.

100141 Because individuals 'interests tend to cluster , collaborative filtering systems can suggest products similar to those in which a user has manifested interest. These systems also can occasionally suggest products that are very different from the user-specified examples, yet are ffirely to be interesting to the consumer as they were to other similar customers. Howevet, these capabilities depend entitely on the existing data (and the other users) of the system.

[00151 Another type of product broker, developed by...

11/5,K/39 (Item 29 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00753809 \*\*Image available\*\*

METHOD OF GROUPING AND ANALYZING CLINICAL RISKS, AND SYSTEM THEREFOR  
TECHNIQUE DE REGROUPEMENT ET D'ANALYSE DES RISQUES CLINIQUES, ET SYSTEME A  
CET EFFET

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

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Application: WO 99US17023 19990728 (PCT/WO US9917023)

Priority Application: US 99302336 19990429

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-019/00

International Patent Class: G06F-017/60

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14392

English Abstract

A comprehensive set of risk groups explicitly identifies groups of individuals with multiple interacting co-morbid conditions, and which explicitly identifies the severity of illness level. This allows accurate prediction of future health care resource needs of an entire population, while simultaneously helping the health care provider isolate problems to identify changes in care to reduce costs and improve quality.

French Abstract

Un ensemble complet de groupes de risques recense explicitement des groupes d'individus ayant en commun de multiples etats pathologiques interagissants, ainsi que le niveau de gravite de la maladie, ce qui permet de prevoir precisement les besoins en terme de ressources de soins de sante d'une population entiere, tout en aidant simultanement les fournisseurs de soins a isoler les problemes, de facon a identifier les modifications a apporter dans les soins afin d'en reduire les couts et d'en ameliorer la qualite.

Legal Status (Type, Date, Text)

Publication 20001109 A1 With international search report.

Examination 20001207 Request for preliminary examination prior to end of  
19th month from priority date

Main International Patent Class: G06F-019/00

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Fulltext Availability:

Detailed Description

Detailed Description

... typical future costs for each individual in a particular clinical risk

group. Those costs then can be used to weight the total cost of a group , based on the number of individuals in each clinical risk group . Similarly , the clinical risk group information can also be used to develop much more accurate predictions of future capital equipment needs, personnel needs and the like.

Brief Description of the Drawings

The preferred embodiments of the invention will be described in...

11/5,K/40 (Item 30 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00753782 \*\*Image available\*\*

SYSTEM AND METHOD FOR SEARCHING AND RECOMMENDING DOCUMENTS IN A COLLECTION

USING SHARED BOOKMARKS

SYSTEME ET PROCEDE DE RECHERCHE ET DE RECOMMANDATION DE DOCUMENTS DANS UNE  
COLLECTION A L'AIDE DE SIGNETS PARTAGES

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200067159 A2-A3 20001109 (WO 0067159)

Application: WO 2000US12042 20000504 (PCT/WO US0012042)

Priority Application: US 99305844 19990505

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK  
SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW  
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Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14069

English Abstract

A search and recommendation system employs the preferences and profiles of individual users and groups within a community of users, as well as information derived from shared document bookmarks, to augment Internet searches, re-rank search results, and provide recommendations for documents based on a subject-matter query. The search and recommendation system operates in the context of a shared bookmark manager, which stores individual users' bookmarks (some of which may be published or shared for

group use) on a centralized bookmark database connected to the Internet. The shared bookmark manager is implemented as a distributed program, portions of which operate on users' terminals and other portions of which operate on the centralized bookmark database.

#### French Abstract

L'invention concerne un systeme de recherches et de recommandations. Ce systeme utilise les preferences et les profils d'utilisateurs et de groupes individuels dans une communauta d'utilisateurs, ainsi que les informations derivees de signets de documents partages, pour augmenter les recherches d'Internet, reevaluer les resultats des recherches, et emettre des recommandations concernant ces documents sur la base d'interrogations sur des sujets specifiques. Le systeme de recherches et de recommandations fonctionne dans le contexte d'un gestionnaire de signets partages, qui memorise les signets des utilisateurs individuels (dont certains peuvent etre publies ou partages pour l'utilisation du groupe) sur une base de donnees de signets centralisee connectee a Internet. Le gestionnaire de signets partages est mis en oeuvre sous forme d'un programme reparti, dont certaines parties fonctionnent sur des terminaux d'utilisateurs et d'autres parties fonctionnent sur la base de donnees des signets centralises.

#### Legal Status (Type, Date, Text)

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Examination 20010201 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20020328 Late publication of international search report  
Republication 20020328 A3 With international search report.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

#### Detailed Description

... public bookmarks. For a description of how this vector is calculated, see U.S. Patent No. 5,442,778 to Pedersen et al., described above. Similarly, a profile for a group includes a normalized content vector representing the aggregate contents of all public bookmarks belonging to the users within the group. The user and group profiles are used in the search and recommendation aspects of the invention, which will be described in further detail below.

Referring now to Fig. 14, a recommendation service according to the invention is generated. This step is preferably performed by manually selecting a user or group profile, which as described above, has a content vector associated therewith. If no existing single user or group is satisfactory, a special-purpose group can be assembled by the user by manually selecting users and having those users'

27

profiles merged into a special-purpose content vector. The user then selects a level of "relevance feedback" (step 1430). Relevance feedback allows the user to select whether the desired documents are those similar to the selected context or dissimilar to the selected context. A known example of positive relevance feedback is the "more like this" option provided by...

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00554420 \*\*Image available\*\*

USE OF ELECTRONIC SHOPPING CARTS TO GENERATE PERSONAL RECOMMENDATIONS  
UTILISATION DE CARTES D'ACHATS ELECTRONIQUES POUR ELABORER DES  
RECOMMANDATIONS PERSONNELLES

Patent Applicant/Assignee:

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Inventor(s):

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LINDEN Gregory D,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200017793 A1 20000330 (WO 0017793)

Application: WO 99US21108 19990913 (PCT/WO US9921108)

Priority Application: US 98156237 19980918

Designated States: AE AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ CZ  
DE DE DK DK DM EE EE ES FI FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG  
KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE  
SG SI SK SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ  
UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT  
LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/60

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10798

English Abstract

A recommendations service recommends products or other items to individual users based on items that are known to be of interest to the users, such as items that are currently and/or were recently in the user's shopping cart. The user may optionally create multiple shopping carts, and view the recommendations associated with a particular shopping cart. The service generates the recommendations using a table (60) which maps items (62) to lists (64) of "similar" items. The similarities reflected by the table (60) are preferably based on the collective interests of the community of users. To generate personal recommendations, the service retrieves from the table (60) the similar items lists (64) corresponding to the items known to be of interest to the user. These similar items lists (64) are appropriately combined into a single list, which is then sorted and filtered to generate a list of recommended items.

French Abstract

Un service de recommandations recommande des produits ou autres articles à des utilisateurs individuels sur la base de listes d'articles qu'on sait présenter un intérêt pour ces mêmes utilisateurs, tels que par exemple ceux qui figurent sur leurs cartes d'achats. L'utilisateur peut facultativement créer plusieurs cartes d'achat et prendre connaissance des recommandations associées à une carte d'achat particulière. Le service élaborer ses recommandations à l'aide d'une table (60) faisant correspondre des articles (62) à des listes (64) d'articles "similaires". Les similarités indiquées par la table (60) se basent de préférence sur les intérêts collectifs d'une communauté d'utilisateurs. Pour élaborer des recommandations personnelles, le service recherche dans la table (60) les listes (64) des articles similaires correspondant à ceux connus pour présenter un intérêt pour l'utilisateur. Ces listes (64) sont judicieusement combinées en une seule liste, qui est ensuite raccourcie, puis filtrée pour fournir la liste des articles recommandés.

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... Service, referred to herein as the Instant Recommendations service, will now be described with reference to Figures 5 and 6.

As indicated above, the Instant Recommendations service is invoked by the user by selecting a corresponding hyperlink from a Web page. For example, the user may select an "Instant Book Recommendations" or similar hyperlink to obtain a listing of recommended 15 book titles, or may select a "Instant Music Recommendations" or "Instant Video Recommendations" hyperlink to obtain a listing of recommended music or video titles. As described below, the user can also request that the recommendations be limited to a particular item category, such as "non-fiction ... jazz" or "comedies." The Instant Recommendations service generates the recommendations based exclusively on the purchase history and any item ratings profile of the particular user. The service becomes available to the user (i.e., the...

...hyperlink is presented to the user) once the user has purchased and/or rated a threshold number (e.g. three) of popular items within the corresponding product group. If the user has established multiple shopping carts, the user may also be presented the option of designating a particular shopping cart to be used in generating the recommendations.

Figure 5 illustrates the sequence of steps that are performed by the Instant Recommendations service to generate personal recommendations.

Steps 180-194 in Figure 5...

11/5,K/46 (Item 36 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00541091 \*\*Image available\*\*

SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR INCREASING THE USER VALUE OF

RECOMMENDATIONS

SYSTEME, PROCEDE ET ARTICLE POUR AMELIORER LA VALEUR DES RECOMMANDATIONS  
AUX UTILISATEURS

Patent Applicant/Assignee:

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Inventor(s):

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RIEDL John T,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200004464 A1 20000127 (WO 0004464)

Application: WO 99US15290 19990707 (PCT/WO US9915290)

Priority Application: US 98118025 19980717

Designated States: AE AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE  
DE DK DK EE ES FI FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MD MG MK MN MW NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TT UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW  
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC  
NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/60

Publication Language: English

Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 14991

English Abstract

The invention includes a system, method and article of manufacture for generating a serendipity-weighted recommendation output set to a user based, at least in part, on a serendipity function. The system includes a processing system of one or more processors configured to receive applicable data that includes item recommendation data and community item popularity data. The processing system is also configured to produce a set of item serendipity control values in response to the serendipity function and the community item popularity data, and to combine the item recommendation data with the set of item serendipity control values to produce a serendipity-weighted and filtered recommendation output set. The method includes receiving applicable data by the processing system, including inputting item recommendation data and community item popularity data. The method further includes generating a set of item serendipity control values in response to the community item popularity data and a serendipity function, using the processing system, and combining the item recommendation data and the set of item serendipity control values to produce a serendipity-weighted and filtered item recommendation output set, also using the processing system. The invention also includes a computer readable medium having a set of program instructions physically embodied thereon, executable by a computer, to perform a method similar to the method described above.

French Abstract

L'invention porte sur un systeme, un procede et un article de fabrication permettant de generer une sortie de recommandation ponderee par serendipite definie pour un utilisateur sur la base, au moins en partie, d'une fonction de serendipite. Le systeme comprend un systeme de traitement d'un ou plusieurs processeurs configures pour recevoir des donnees d'application comprenant des donnees de recommandations d'articles et des donnees de popularite d'articles de communaute. Le systeme de traitement est egalement configure pour produire un ensemble de valeurs de commande de serendipite d'articles en reponse a la fonction de serendipite et aux donnees de popularite d'articles de communaute, et combiner les donnees de recommandations d'articles avec l'ensemble des valeurs de commande de serendipite d'articles pour produire un ensemble de sortie de recommandations\_filtrees et ponderees par serendipite. Le procede consiste a recevoir des donnees d'application par le systeme de traitement et a introduire les donnees de recommandation d'articles et les donnees de popularite d'articles de communaute. Le procede consiste egalement a generer un ensemble de valeurs de commande de serendipite d'articles en reponse aux donnees de popularite d'articles de communaute et a une fonction de serendipite, a l'aide du systeme de traitement, et combiner les donnees de recommandation d'articles et l'ensemble de valeurs de commande de serendipite d'articles pour produire un ensemble de sortie de recommandations d'articles\_filtrees et ponderees par serendipite, egalement a l'aide du systeme de traitement. L'invention comprend egalement un support pouvant etre lu par l'ordinateur et dans lequel est physiquement incorpore un ensemble d'instructions de programme, pouvant etre execute par l'ordinateur, de facon a realiser un procede similaire au procede precite.

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/60

Fulltext Availability:  
Detailed Description

Detailed Description

... Curves To Evaluate Predictive Utility", all of which have been incorporated herein by reference.

In automated collaborative filtering, candidate items for recommendation are generated by matching users who have shared interests in the past into groups . These groups are called affinity groups or neighborhoods.

Members of a user 's affinity group are called neighbors. To form a neighborhood for a user , the recommendation engine finds the set of people in the preference data who have the profiles most similar to the profile of a user. Similarity between two profiles may be measured by counting the items that are shared by the two profiles.

There are many different methods to form affinity...As a result, the customer's profile 404 contains a circle, a triangle and a cross.

To form a neighborhood, the recommendation engine selects the set of users from the user population who have the profiles most similar to the customer's profile. It is important to limit membership in the neighborhood to those neighbors who can contribute positively to a personalized recommendation for the customer. Since user preference data can often contain information for large numbers of users, it is also important to limit the number of users that are selected as neighbors. Therefore, the formation of neighborhoods is controlled primarily by two parameters, namely i) minimum neighbor similarity and ii) maximum neighborhood size. These parameters may be configured by the administrator of the recommendation engine. Minimum neighbor similarity ensures that all members of a neighbor have a minimum number of items in common with the customer before being included in a neighborhood. Configuring the system for a large maximum neighborhood size provides a larger set of items that can be recommended for each user, while a smaller maximum neighborhood size focuses on including only the best neighbors.

In the present example, the minimum neighborhood similarity is...

11/5,K/47 (Item 37 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00532110 \*\*Image available\*\*  
METHOD AND APPARATUS FOR PREDICTING AND IMPROVING PATIENT COMPLIANCE WITH MEDICAL TREATMENT  
PROCEDE ET DISPOSITIF SERVANT A PREDIRE ET A AMELIORER LA CONFORMITE D'UN PATIENT A UN TRAITEMENT MEDICAL

Patent Applicant/Assignee:

PARETOSCOPE INC,

Inventor(s):

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POWSNER Seth M,

SHOWALTER Allan Ray,

SPITZER Richard Alan,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9963462 A1 19991209

Application: WO 99US12222 19990602 (PCT/WO US9912222)

Priority Application: US 9887847 19980603; US 99320394 19990526

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Main International Patent Class: G06F-017/60

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13873

#### English Abstract

Methods and apparatus for predicting and improving patient compliance with a course of medical treatment call for inputting data about the patient (201) and, optionally, about the health care provider (203), the condition diagnosis/prognosis (215), and the treatment recommendation (217). From this data, the patient's attitude or amenability to treatment can be determined, as can the health care provider's attitude and/or ability to induce compliance with a course of treatment. Moreover, methods and apparatus according to the invention can estimate the likelihood of patient compliance with a specific course of treatment or can generate a suggested program of treatment likely to have an increased probability of patient compliance.

#### French Abstract

Procedes et dispositifs servant a predire et a ameliorer la conformite d'un patient a un traitement medical et consistant a entrer des donnees concernant le patient (201) et, eventuellement, le dispensateur de soins de sante (203), le diagnostic/pronostic (215) de l'etat du patient et le traitement recommande (217). On peut, a partir de ces donnees, determiner l'attitude ou la reponse du patient au traitement, ainsi que l'attitude du dispensateur de soins de sante et/ou sa capacite a induire une conformite avec le traitement. De plus, ces procedes et ces dispositifs permettent d'évaluer la susceptibilite de conformite du patient avec un traitement specifique ou de generer une suggestion de programme de traitement pouvant presenter une probabilite accrue de conformite du patient.

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

#### Detailed Description

... and medical information are collected from a representative population sample. Cluster analysis yields a few population subgroups whose attitudes, beliefs, behaviors are likely to be similar to each other, and different from people in other clusters . In market surveys, cluster analysis facilitates segmentation of the market.

Medical compliance could be considered a problem in selling medical treatment.

However, there are critical differences. Companies start with...

00412374 \*\*Image available\*\*

A METHOD AND APPARATUS FOR EXPERTLY MATCHING PRODUCTS, SERVICES, AND CONSUMERS

PROCEDE ET APPAREIL PERMETTANT D'ACCORDER HABILEMENT DES PRODUITS, DES SERVICES ET DES CONSOMMATEURS

**Patent Applicant/Assignee:**

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De MONCHY Katlean,

Inventor(s):

POST David A,  
De MONCHY Katlean,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9802835 A1 19980122

Application: WO 97US12277 19970715 (PCT/WO US9712277)

Priority Application: US 9622309 19960715

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PT SE

Main International Patent Class: G06F-017/60

Publication Language: English

#### Fulltext Availability:

### Detailed

## Claims

**Abstract**  
A system for matching individuals, products and service providers is trained to react as if an expert was assisting the user, in real-time, to make purchases or design personal development programs or marketing programs. The system allows the user to obtain recommendations from experts based on individual preferences, personal profiles, and desires and goals of individuals. The system creates a database of information about the individuals in order to provide a customized response based on an individual's objectives. The computer system is configured with five primary components: input device (84), processor (93), database (96), expert system (92) and display (81). The computer-driven system creates, accesses, and processes data from databases related to products, services, providers, and the like. Boolean, fuzzy, rule-based, and knowledge-based logic, expert systems, expert interaction and/or expert intervention are used to achieve results.

## French Abstract

Un systeme permettant d'accorder des individus, des produits et des prestataires de services est configure pour reagir comme si un specialiste aidait l'utilisateur, en temps reel, a effectuer des achats ou a concevoir ses propres programmes de mise en valeur ou de marketing. Le systeme permet a l'utilisateur d'obtenir des recommandations de specialistes fondees sur ses preferences personnelles, son profil, ses desirs et ses objectifs. Le systeme cree une base de donnees contenant des informations sur des individus dans le but de fournir une reponse personnalisee en fonction des objectifs d'un individu. Le systeme informatique est configure au moyen de cinq principaux elements: une unite d'entree (84), un processeur (93), une base de donnees (96), un systeme expert (92) et un dispositif d'affichage (81). Le systeme commande par ordinateur cree, consulte et traite des donnees provenant de bases de donnees sur des produits, services, fournisseurs et autres. Une logique booleenne, floue, a base de regles et de connaissances, des systemes experts, une interaction d'experts et/ou une intervention d'experts sont mis en oeuvre pour obtenir ces resultats.

Main International Patent Class: G06F-017/60

**Fulltext Availability:**  
**Detailed Description**

**Detailed Description**

... this method with an additional primary routine is that the products are coded in memory and the codes may be accessed later so as to **match** the products to the individual .

**Grouping Embodiment**

Referring to Figure 12, a preferred embodiment with **individual grouping** is shown. Individuals are placed into or assigned to **groups** for **matching**. Group assignments are determined by the answers to questions which allow the **user** to be put into a category. This embodiment could be used with either of the above two embodiments; i.e., the **individual grouping** could be used in the embodiment for **matching** products to an **individual** or in the embodiment for **matching** individuals to a product. This embodiment is very **similar** to the previous embodiments except for one notable difference; instead of the **individual** having a data profile with the **individual**'s characteristics and preferences, the **individual** will be placed into a **group**, and the **individual**'s **group**

will be the data **associated** with the **individual**. The **individual** will

still have a body shape identifier. Therefore, products will not be compared to the **individual** based on the **individual**'s characteristics and preferences; the products will be **compared** to the **individual** based on the **individual**'s assigned **group**. For example, if the product is appropriate for the **individual**'s **group**, then it will be accepted for the **individual**. One advantage of using a **grouping** system is that the product **recommendations** could be **recommended** for a whole group through some mass media, such as magazines, television or newspapers. This would allow for the efficient delivery of personalized **recommendation**.

16/5,K/3 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00869176 \*\*Image available\*\*

**ATTRIBUTE-BASED SHOPPING INTELLIGENCE  
INTELLIGENCE D'ACHATS FONDEE SUR LES ATTRIBUTS**

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**Patent and Priority Information (Country, Number, Date):**

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Application: WO 2001AU772 20010629 (PCT/WO AU0100772)

Priority Application: AU 20008475 20000630; AU 20008476 20000630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/60

Publication Language: English

Filing Language: English

**Fulltext Availability:**

Detailed Description

Claims

Fulltext Word Count: 9776

**English Abstract**

A web site structure and a method of building a web site for an internet shopping mall in which a number of different and independent retailers are represented on web pages produced on the shopping mall site but under each retailer's individual control. The web site is structured to provide seamless integration of resident and third party internet sites into a portal shopping site, while maintaining the integrity of the third party sites, and providing access to shopper service functions aggregated across and accessible from the resident and third party internet sites. The site also provides product and consumer profiling to provide an enhanced shopping experience, by matching product and consumer profiles when serving pages to a consumer. The web site also provides a transaction management system which manages an aggregated transaction and fulfilment workflow for a plurality of transactions of concurrent transactions.

**French Abstract**

Structure de site Web et procédé pour construire une site Web sur la base d'un supermarché virtuel, dans lequel un certain nombre de revendeurs

différents et indépendants sont représentés sur les pages Web, produites sur le site Web du supermarché mais se trouvant sous le contrôle de chacun des revendeurs. Le site Web est conçu de manière à permettre l'intégration sans accoups des sites Internet de résidents et de tiers dans un site-portail d'achats, et ce tout en préservant l'intégrité des sites des tiers et assurant l'accès aux fonctions de service acheteurs, accumulées et disponibles à partir des sites Internet de résidents et de tiers. L'invention permet aussi un profilage de produits et de consommateurs assurant une meilleure expérience d'achats, et ce grâce à l'appariement du profil des produits et de celui des consommateurs accompagné d'une offre de pages au consommateur. Le site Web contient aussi un système de gestion des transactions qui gère un flux des travaux accumulés, avec transactions et réalisations, pour plusieurs transactions concurrentes.

Legal Status (Type, Date, Text)

Publication 20020110 AI With international search report.

Examination 20020228 Request for preliminary examination prior to end of 19th month from priority date

Examination 20030417 Request for preliminary examination prior to end of 19th month from priority date

Fulltext Availability:

Claims

Claim

1. A method for creating a product profile, for each of one or more products offered for sale by a vendor or a group of vendors, for matching with a cooperating consumer profile of each of one or more consumers for whom a relationship has been established with the vendor or the group of vendors, by assigning shopping...

...product. h) Using a business logic layer (BLL) to provide a matching algorithm for intelligent matching of consumer and product attributes in order to provide

recommendations as to appropriate products for specified consumers;

i) Create an intelligence engine which uses the PALL and the BLL and provides:

i) A query function...

...products or consumers or set of consumers.

ii) A system level interface layer that allows software applications to provide PSA and CSA information and generate recommendations on appropriate shoppers or products based on the matching algorithm of the BLL.

SUBSTITUTE SHEET (RULE 26)

2 The method of claim 1 wherein, when...

16/5,K/4 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00869145 \*\*Image available\*\*

DETECTING AND MEASURING RISK WITH PREDICTIVE MODELS USING CONTENT MINING  
DETECTION ET MESURE DE RISQUE AU MOYEN DE MODELES DE PRÉVISION PAR  
EXTRACTION DU CONTENU

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200203226 A1 20020110 (WO 0203226)

Application: WO 2001US20335 20010626 (PCT/WO US0120335)

Priority Application: US 2000215532 20000630; US 2000675412 20000929

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ  
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11851

English Abstract

Computerized implemented methods and systems of processing transactions to determine the risk of transaction convert high categorical information (108), such as text data, to low categorical information (106), such as category or cluster IDs. The text data may be merchant names or other textual content of the transactions, or data related to a consumer, or any other type of entity which engages in the transaction. Content mining techniques are used to provide the conversion from high to low categorical information (106). In operation, the resulting low categorical information (106) is input, along with other data, into a statistical model (116). The statistical model (116) provides an output of the level of risk in the transaction. Methods of converting the high categorical information (108) to low categorical clusters, of using such information, and other aspects of the use of such clusters are disclosed.

French Abstract

L'invention concerne des procedes et des systemes ameliores de traitement de transactions en vue de determiner les risques de transaction qui convertissent des informations de haute categorie (108), telles que des donnees de texte, en informations de basse categorie (106), telles que des identites de categorie ou de groupe. Les donnees de texte peuvent etre des noms de commerçant, un autre contenu textuel des transactions, ou des donnees relatives a un consommateur, ou n'importe quelle autre type d'entite s'impliquant dans la transaction. Les techniques d'extraction du contenu sont utilisees en vue de convertir les informations de haute categorie en informations de basse categorie (106). En fonctionnement, les informations de basse categorie resultantes (106) sont entrees, avec d'autres donnees, dans un modele statistique (116). Le

modele statistique (116) fournit une sortie du niveau de risque de la transaction. L'invention concerne des procedes de conversion des informations de haute categorie (108) en groupes de basse categorie, et d'utiliser ces informations, et d'autres aspects d'utilisation de ces groupes.

Legal Status (Type, Date, Text)

Publication 20020110 A1 With international search report.

Fulltext Availability:

Claims

Claim

... clusters, the merchant clusters determined from statistical co-ocurrences of the merchant names in a plurality of transactions; receiving data from a transaction between a consumer and merchant; determining one of the plurality of merchant clusters associated with the merchant of the transaction based on the merchant's name; and applying the merchant cluster in conjunction with data derived from the transaction to a predictive model to determine a level of risk of the transaction.

2 The method of claim 1, further comprising:  
estimating a l(inverted exclamation mark)keI...

...of the percentage of transactions in the merchant cluster that are fraudulent.  
to 8. The method of claim 1, further comprising:  
storing a plurality of consumer clusters;  
storing for each combination of a consumer cluster and a merchant cluster a risk factor indicative of the likelihood that transactions by consumers in the consumer cluster at merchants within the merchant cluster are fraudulent; determining a current cardholder cluster associated with the cardholder; and applying the risk factor of the combination of the current cardholder cluster and the merchant cluster to the predictive model.

9 The method of claim 8, wherein the risk factor is an estimate of the percentage of transactions in the merchant cluster by consumers...  
...clusters, the merchant clusters determined from statistical co-occurrences of the merchant names in a plurality of transactions; receiving data of a transaction between a consumer and merchant; determining one of the plurality of merchant clusters associated with the merchant of the transaction based on the merchant name; determining an affinity measure of an affinity of cardholder to the merchant cluster; and applying the affinity measure in conjunction with data derived from the transaction to a predictive model to determine the level of risk of the transaction.

35

. The method of claim 6, wherein determining the affinity measure of an affinity of...

...a consumer and merchant;  
determining a predicted merchant cluster in which the consumer is  
predicted to have a future transaction based on transactions of the  
consumer prior to the  
current transaction;  
determining an actual merchant cluster associated with the merchant  
of the  
transaction based on the merchant name;  
determining a difference measure between the predicted merchant cluster  
and the  
actual merchant cluster; and  
36  
applying the difference measure in conjunction with data derived from the  
transaction to a predictive model to determine the level of risk of the  
transaction.

#### 19 A system for detecting risk in

16/5,K/5 (Item 5 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00868220

#### SYSTEM AND METHOD FOR PREDICTION OF MUSICAL PREFERENCES SISTÈME ET PROCÉDÉ POUR PRÉDIR DES PREFERENCES EN MATIÈRE DE MUSIQUE

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except: US)

##### Patent Applicant/Inventor:

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##### Patent and Priority Information (Country, Number, Date):

Patent: WO 200201438 A2 20020103 (WO 0201438)  
Application: WO 2001IL603 20010629 (PCT/WO IL0100603)  
Priority Application: US 2000214753 20000629

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DE (utility model) DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL  
IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO  
NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/60

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13343

English Abstract

French Abstract

Legal Status (Type, Date, Text)

Publication 20020103 A2 With declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority.

Fulltext Availability:

Claims

Claim

... a media selection, the method comprising:  
analyzing at least a portion of a catalog of media selections according to a characteristic  
1 5 by a group of raters;  
rating at least one media selection by the user ;  
matching said rating with said characteristic to predict the preference of the user for at least one of the media selections of the catalog; and recommending at least one predicted media selection to the user.

24 A method for predicting a preference of a user for a media selection, the method comprising:  
automatically analyzing at...

16/5,K/6 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00867316 \*\*Image available\*\*

SYSTEM AND METHOD FOR PROVIDING PERSONALIZED RECOMMENDATIONS

SYSTEME ET PROCEDE DESTINES A FOURNIR DES RECOMMANDATIONS PERSONNALISEES

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Inventor(s):

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200201419 A1 20020103 (WO 0201419)

Application: WO 2001US20689 20010627 (PCT/WO US0120689)

Priority Application: US 2000214871 20000628

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/60

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4581

#### English Abstract

A system and method of providing personalized recommendations. The system defines objects, such as common areas of interests. These objects can be such areas of interest as movies, restaurants, clothes, geography, hobbies, sports, etc. Each object has a set of properties that define the objects. For example, a Movie object may have such properties as genre, director, actors, etc. Each object can then be grouped into a cluster based on commonality of properties of objects that are closely related by different users. For example, if a number of users have similar properties on a particular object, then other objects are examined as to whether their properties are also similar. An example might be that if a number of users have similar properties on a particular style of music, then their preferences on movies, clothing, hobbies, etc. may also be similar. If these conditions are met, then a "cluster" of those objects and users is formed. Recommendations based on the choices and recommendations from other users within a cluster may then be forwarded to the user.

#### French Abstract

L'invention concerne un système et un procédé de fourniture de recommandations personnalisées. Ledit système définit des objets, par exemple des zones d'intérêt communes telles les cinémas, les restaurants, les vêtements, la géographie, les loisirs, les sports, etc. Chaque objet a un ensemble de propriétés qui définit les objets. Par exemple, les propriétés d'un objet cinéma peuvent être le genre, le réalisateur, les acteurs, etc. Chaque objet peut ensuite être groupé en bloc fondé sur la communauté des propriétés des objets étroitement reliés par différents utilisateurs. Par exemple, si des utilisateurs présentent des propriétés semblables sur un objet particulier, les autres objets sont alors examinés afin de déterminer si leurs propriétés sont également semblables. Par exemple, il se peut que si des utilisateurs présentent des propriétés semblables sur un style de musique particulier, leurs préférences en matière de cinéma, de vêtement, de loisirs, etc., peuvent également être semblables. Si ces conditions sont réalisées, on peut alors former un bloc de ces objets et de ces utilisateurs. Des recommandations fondées sur les choix et les recommandations d'autres utilisateurs peuvent alors être communiquées à l'utilisateur concerné.

#### Legal Status (Type, Date, Text)

Publication 20020103 A1 With international search report.

Examination 20020523 Request for preliminary examination prior to end of  
19th month from priority date

Examination 20030424 Request for preliminary examination prior to end of  
19th month from priority date

#### Fulltext Availability:

Claims

#### Claim

... providing recommendations to users utilizing  
a computer system, said method comprising the steps of  
defining one or more objects;  
determining properties of said defined objects;  
associating said defined objects into clusters;  
associating users with one or more of said clusters ; and

providing **recommendations** to **users** based on the association of **users** with **clusters**.

2 The method of claim 1 wherein said step of defining one or more objects includes:

j defining indicators about the preferences of a...

...measure to determine how relevant an associated cluster is to the user.

10 The method of claim 9 wherein said step of providing recommendations to **users** based on the association of **users** within an **associated**

**cluster** includes:

weighting said **recommendations** by said relevance measure.

14

I 1. The method of claim 1 wherein said method includes: a system for implementing said method; providing a portal...

...method of claim 1 wherein said method includes:

providing a system for implementing said method; said system including:

a first database containing individual primary data **relating** to the users;

a second database containing personalized individual **recommendations** ;

a third database containing data **relating** to said **clusters** ;

a fourth database containing data relating to said objects and to said properties;

a people categorization module connected to said first database and said

.0...

...connected to said third database;

an object categorization module connected to said first database, said third

database and said fourth database; and

1 5

a **recommendations** module connected to each of said databases and modules.

17 A system for providing recommendations to users; said system comprising:

an interface for allowing users...

...relating to said defined objects;

a cluster module for associating objects into clusters depending on related

properties between objects;

a third database for storing data **relating** to said **clusters** ;

a user categorization module for associating **users** with one or more of

said **clusters** depending on said user data and said properties of associated objects

within said **clusters** ;

providing recommendations to **users** depending on said **clusters** to which

a user is associated ; and

a fourth database for storing **recommendations** .

18 The system of claim 17 wherein said system includes:

a server for operating said system.

19 The system of claim 17 wherein said system...

16/5,K/18 (Item 18 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00552836 \*\*Image available\*\*

DYNAMIC MATCHINGTM OF USERS FOR GROUP COMMUNICATION  
CORRESPONDANCE DYNAMIQUETM DES UTILISATEURS POUR LA COMMUNICATION EN GROUPE  
Patent Applicant/Assignee:

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Inventor(s):

OLIVIER Michael,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200016209 A1 20000323 (WO 0016209)

Application: WO 99US21589 19990915 (PCT/WO US9921589)

Priority Application: US 98100387 19980915; US 99115566 19990112; US  
99143947 19990715

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK  
DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY  
KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-015/16

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 15766

#### English Abstract

A method for users to exchange group electronic mail by establishing individual profiles and criteria (302) for determining individualized groups. Users establish subscription (208) to an electronic mailing list (204) by specifying user profiles and profile criteria (302) to screen users. When a user subscribes (208), a web server (346) establishes and stores an individualized list (204) of subscribers (208) who form a mutual criteria match with the user. When the user then sends a message to the mailing list (210), an email server (354) filters her recipient list down to a message distribution list using each recipient's message criteria (302). The message is then distributed to matching users. Additionally, email archives and information contributions from users are stored in a database. A web server creates an individualized set of web pages for a user from the database, containing contributions only from users in his recipient list. In other embodiments, users apply mutual criteria matching and message profile criteria to other group forums, such as newsgroups, voicemail, instant messaging, chat, web-based discussion boards, and online gaming rendezvous.

#### French Abstract

L'invention concerne un procede permettant a des utilisateurs d'echanger du courrier electronique en groupe en etablisant des criteres et profils individuels (302) de maniere a determiner des groupes individualises. Les utilisateurs s'abonnent (208) a une liste d'adresses electronique en specifiant des profils d'utilisateur et des criteres de profils (302) afin de selectionner d'autres utilisateurs. Quand un utilisateur s'abonne

(208), un serveur reseau (346) etablit et stocke une liste individualisee (204) d'abonnes (208) dont des criteres correspondent a ceux de l'utilisateur. Quand l'utilisateur envoie un message a la liste (210) d'adresses, un serveur (354) de courrier electronique filtre sa liste de destinataires jusqu'a une liste de distribution de messages en utilisant un criterie (302) du message de chaque destinataire. Le message est ensuite distribue aux utilisateurs correspondants. De plus, des archives de courrier electronique et des contributions d'informations venant des utilisateurs sont stockees dans une base de donnees. Un serveur reseau cree une serie individualisee de pages reseau destinee a un utilisateur a partir de la base de donnees, contenant des contributions provenant uniquement des utilisateurs de sa liste de destinataires. Selon d'autres modes de realisation, des utilisateurs appliquent une mise en correspondance des criteres reciproques et des criteres de profils de message a d'autres forums de groupes, tels que des groupes de presse, une messagerie telephonique, une messagerie instantanee, une discussion, des groupes de discussion sur le reseau, et des rendez-vous de jeux en direct.

Fulltext Availability:  
Claims

Claim

... LISTS. SEE FIG. 5  
212 SERVER RECEIVES MESSAGES AND  
DISTRIBLYfa TO SUBSCRIBERS  
BASED ON SENDER AND RECIPIENT  
ACCEPTANCE CRITERIA SEE FIGS. 6a, 6b  
214 RESULT: USERS EXCHANGE IRGH QUALITY  
MESSAGES WITH OTHER MATCHNG L)SERS.  
SUB- GROUPS WITH(N MAILING LISTS  
NATURALLYFORM

2/14

Figure 3a: System's Database -300  
302.

-306

Unique ID 1 Subscription  
Username U{dque ID  
Password Username...

...Who you want to email with:

408 of YOU  
Residents People within  
Businesses

412

What you want to exchange email about:

414 ts  
News

F} Recommendations

F-1 Other

C@D

416

Content Search: NOT 'for sale"

5/14

Figure 4b: User subscription process

@208

442

USER GOES TO  
WEB SITE...

...a good remodelling contractor

File 8:Ei Compendex(R) 1970-2003/May W1  
     (c) 2003 Elsevier Eng. Info. Inc.  
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     (c) 2003 Japan Science and Tech Corp(JST)  
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 File 483:Newspaper Abs Daily 1986-2003/May 16  
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 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 1998 Inst for Sci Info  
 File 34:SciSearch(R) Cited Ref Sci 1990-2003/May W2  
     (c) 2003 Inst for Sci Info  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Apr  
     (c) 2003 The HW Wilson Co.  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
     (c) 2002 The Gale Group  
 File 266:FEDRIP 2003/Mar  
     Comp & dist by NTIS, Intl Copyright All Rights Res  
 File 95:TEME-Technology & Management 1989-2003/May W1  
     (c) 2003 FIZ TECHNIK  
 File 438:Library Lit. & Info. Science 1984-2003/Apr  
     (c) 2003 The HW Wilson Co  
 ? ds

Set	Items	Description
S1	7271018	GROUP???? OR SET? ? OR CLUSTER? ? OR COLLECTION? ?
S2	5792335	RECORD? ? OR PROFILE? ? OR USER? ? OR CONSUMER? ? OR CUSTOMER? ? OR BUYER? ? OR PURCHASER? ? OR SHOPPER? ? OR INDIVIDUAL? ? OR PERSON? ? OR PEOPLE? ?
S3	30264	S1(5N)S2(5N) (SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S4	6757812	RECOMMEND? OR PREDICT? OR GUESS??? OR SUGGEST? OR REFER? ? OR REFERRAL? ? OR REFERRING OR FORECAST??? OR PROBABILIT?
S5	8928	S3 AND S4
S6	3752	S5 AND (RECOMMEND? OR PREDICT?)
S7	1052	S6 AND SIMILAR?
S8	23357	(GROUP???? OR CLUSTER? ?)(5N)S2(5N) (SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? - OR COMMON OR LIKE OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S9	2958	S8 AND (RECOMMEND? OR PREDICT?)
S10	914	S9 AND SIMILAR?
S11	114	S10 AND SIMILARITY
S12	103	RD (unique items)
S13	90	S12 NOT PY=2001:2003
S14	3901	(GROUP???? OR CLUSTER? ?)(5N)S2(5N)SIMILAR?
S15	539	S14 AND (RECOMMEND? OR PREDICT?)

S16        78     S15 AND SIMILARITY  
S17        71     RD (unique items)  
S18        60     S17 NOT PY=2001:2003  
S19        30     S13 NOT S18  
S20      19941    GROUP? ?(5N)S2(5N)(SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR  
                  COMPAR? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE  
                  OR CORRELAT? OR CORRESPOND? OR ASSOCIAT?)  
S21      2581     S20 AND (RECOMMEND? OR PREDICT?)  
S22        84     S21 AND SIMILARITY  
S23        79     RD (unique items)  
S24        10     S23 NOT S13

24/5/1 (Item 1 from file: 8)  
DIALOG(R) File 8:Ei Compendex(R)  
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06368377 E.I. No: EIP03187452380

Title: Web user clustering from access log using belief function  
Author: Xie, Yunjuan; Phoha, Vir V.  
Corporate Source: Computer Science Department Louisiana Tech University,  
Ruston, LA 71272, United States  
Conference Title: Proceedings of the First International Conference on  
Knowledge Capture  
Conference Location: Victoria, BC, Canada Conference Date:  
20011021-20011023  
Sponsor: ACM; American Association for Artificial Intelligence;  
International Federation for Information Processing  
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Source: Proceedings of the First International Conference on Knowledge  
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ISBN: 1581133804  
Language: English  
Document Type: CA; (Conference Article) Treatment: T; (Theoretical)  
Journal Announcement: 0305W1  
Abstract: In this work, we present a novel approach to clustering Web  
site users into different groups and generating common user  
profiles . These profiles can be used to make recommendations ,  
personalize Web sites, and for other uses such as targeting users for  
advertising. By using the concept of mass distribution in  
Dempster-Shafer's theory, the belief function similarity measure in our  
algorithm adds to the clustering task the ability to capture the  
uncertainty among Web user's navigation behavior. Our algorithm is  
relatively simple to use and gives comparable results to other approaches  
reported in the literature of web mining. 16 Refs.  
Descriptors: \*Websites; Data mining; Electronic commerce; Database  
systems; Algorithms  
Identifiers: Web mining  
Classification Codes:  
723.2 (Data Processing); 723.5 (Computer Applications); 723.3  
(Database Systems)  
723 (Computer Software, Data Handling & Applications)  
72 (COMPUTERS & DATA PROCESSING)

24/5/2 (Item 1 from file: 35)  
DIALOG(R) File 35:Dissertation Abs Online  
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01878624 ORDER NO: AADAA-I3047655  
Personality similarity as a predictor of organizational turnover: A  
test of attraction-selection-attrition theory  
Author: Pendergrass, Laura Ann  
Degree: Ph.D.  
Year: 2002  
Corporate Source/Institution: University of Minnesota (0130)  
Adviser: Jo-Ida C. Hansen  
Source: VOLUME 63/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1599. 184 PAGES  
Descriptors: PSYCHOLOGY, INDUSTRIAL ; PSYCHOLOGY, PERSONALITY  
Descriptor Codes: 0624; 0625  
ISBN: 0-493-61768-X

This study examined the utility of personality **similarity** among coworkers as a **predictor** of organizational turnover. Schneider's (1987) Attraction-Selection-Attrition (ASA) theory proposes that people prefer to work with others who are similar in personality to themselves and that people who sense that they do not fit the group will leave the organization. Homogeneity within organizations is the hypothesized result of these processes. To test these hypotheses, a sample of 113 employees of a retail organization completed the California Psychological Inventory (CPI) and the Watson-Glaser Critical Thinking Appraisal (CTA). The personality profiles of these employees were then averaged to arrive at a **comparison mean profile** for the **group**. The **profiles** of 112 applicants to the same organization were then **compared** against the **comparison profile** to determine if **similarity** to the existing work **group** was **predictive** of each **individual**'s turnover from the **group**.

Results offered mixed support for the theory. Employees did show a unique personality profile that was significantly different from business executives and from the general population, and they demonstrated the significant homogeneity expected by ASA theory. Applicants were more similar to employees at this organization than they were to a normative sample of business executives, lending support to the ASA hypothesis that people will be attracted to organizations where they perceive that the employees have personalities similar to their own. Discriminant analyses yielded no functions that successfully discriminated between individuals who remained with the organization and those who left, using either personality scale scores or difference scores as **predictors**. Point-biserial correlations did yield significant results. Specifically, the Femininity/Masculinity, Tolerance, Capacity for Status, Intellectual Efficiency, Self-control, Good Impression, and Socialization scales of the CPI all correlated significantly with an individual's tendency to remain in the organization. Using difference scores as **predictors**, six scales correlated significantly with tenure; **similarity** to one's coworkers on the Self-control, Tolerance, Intellectual Efficiency, Femininity/Masculinity, Socialization, and Good Impression scales was **predictive** of an individual's tendency to remain in the organization. Personality and personality **similarity** appear to have moderate utility as **predictors** of organizational turnover.

24/5/3 (Item 1 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

7561748 INSPEC Abstract Number: C2003-04-7180-044  
Title: User preference mining through collaborative filtering and content based filtering in recommender system  
Author(s): SuJeong Ko; JungHyun Lee  
Author Affiliation: Dept. of Comput. Sci. & Eng., Inha Univ., Inchon, South Korea  
Conference Title: E-Commerce and Web Technologies. Third International Conference, EC-Web 2002. Proceedings (Lecture Notes in Computer Science Vol.2455) p.244-53  
Editor(s): Bauknecht, K.; Min Tjoa, A.; Quirchmayr, G.  
Publisher: Springer-Verlag, Berlin, Germany  
Publication Date: 2002 Country of Publication: Germany xiv+414 pp.  
ISBN: 3 540 44137 9 Material Identity Number: XX-2002-02757  
Conference Title: E-Commerce and Web Technologies. Third International Conference, EC-Web 2002. Proceedings  
Conference Date: 2-6 Sept. 2002 Conference Location: Aix-en-Provence, France  
Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)  
Abstract: Previous studies on implementing both collaborative and content based filtering systems fail to come to a conclusive solution, and in this light, the decreased accuracy of recommendations is notable. The paper first addresses methods on how to minimize the shortcomings of the two respective systems, Then, by comparing the similarity of the resulting user profiles and group profiles , it is possible to increase the accuracy of the user and group preference. To lessen the negative aspects the following must be done. With the case of the multi dimensional aspects of content based filtering, associated word mining should be used to extract relevant features. The data expressed by the mined features are not expressed as a string of data, but as a related word vector. To make up for its faults, content based filtering systems should use Bayesian classification, a system that classifies products by maintaining a knowledge base of related words. Also, to decrease the sparsity of the user-product matrix, the dimensions must be reduced. In order to reduce the dimensions of the columns, it is necessary to use Bayesian classification in tandem with the related-word knowledge base. Finally to reduce the dimensions of the rows the users must be classified into clusters. (20  
Refs)

Subfile: C  
Descriptors: Bayes methods; classification; data mining; electronic commerce; information filters; knowledge based systems; user interfaces; Web sites

Identifiers: recommender system; user preference mining; collaborative filtering; content based filtering; user profile; group profile; associated word mining; relevant feature extraction; related word vector; Bayesian classification; related-word knowledge base; product classification; user-product matrix; user cluster; electronic commerce

Class Codes: C7180 (Retailing and distribution computing); C7210N (Information networks); C6170K (Knowledge engineering techniques); C6180 (User interfaces); C1140Z (Other topics in statistics)

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24/5/4 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.  
  
7540444 INSPEC Abstract Number: C2003-04-7210N-010  
Title: Web user clustering from access log using belief function  
Author(s): Yunjuan Xie; Phoha, V.V.  
Author Affiliation: Comput. Sci. Dept., Louisiana Tech. Univ., Ruston, LA, USA  
Conference Title: Proceedings of the First International Conference on Knowledge Capture p.202-8  
Publisher: ACM, New York, NY, USA  
Publication Date: 2001 Country of Publication: USA x+209 pp.  
ISBN: 1 58113 380 4 Material Identity Number: XX-2001-02199  
U.S. Copyright Clearance Center Code: 1-58113-380-4/01/0010...\$5.00  
Conference Title: Proceedings of 1st International Conference on Knowledge Capture  
Conference Date: 21-23 Oct. 2001 Conference Location: Victoria, BC, Canada  
Language: English Document Type: Conference Paper (PA)  
Treatment: Theoretical (T)  
Abstract: In this work, we present a novel approach to clustering Web site users into different groups and generating common user profiles . These profiles can be used to make recommendations , personalize Web sites, and for other uses such as targeting users for

advertising. By using the concept of mass distribution in Dempster-Shafer's theory, the belief function **similarity** measure in our algorithm adds to the clustering task the ability to capture the uncertainty among Web user's navigation behavior. Our algorithm is relatively simple to use and gives comparable results to other approaches reported in the literature of Web mining. (16 Refs)

Subfile: C

Descriptors: advertising data processing; belief maintenance; data mining ; information needs; uncertainty handling; Web sites

Identifiers: Web site user clustering; common user profiles; recommendations ; Web site personalization; advertising; mass distribution; Dempster-Shafer theory; belief function; uncertainty; Web mining; access log

Class Codes: C7210N (Information networks); C7220 (Generation, dissemination, and use of information); C7170 (Marketing computing); C6170K (Knowledge engineering techniques)

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24/5/6 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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05289855 JICST ACCESSION NUMBER: 02A0850330 FILE SEGMENT: JICST-E  
Purchase Prediction by Customer - Group Similarity Based on  
Rarely-Sold Items.

YAMAGUCHI NAOKI (1); NAGAHAMA MITSUTOSHI (1); SUZUKI EINOSHIN (1)  
(1) Yokohama National Univ., JPN

Jinko Chino Gakkai Zenkoku Taikai Ronbunshu(Proceedings of the Annual  
Conference of JSAl), 2002, VOL.16th,dail bunsatsu,  
PAGE.1A4.01.1-1A4.01.4, FIG.2, TBL.3, REF.3

JOURNAL NUMBER: X0580AAA

UNIVERSAL DECIMAL CLASSIFICATION: 65.012.122 658.81/.89

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

ABSTRACT: In this paper, we propose, based on rarely-sold items, a similarity measure between a customer and a group of customers for purchase prediction . The measure represents, for a specific item, similarity between a customer who hasn't purchased the item and a group of customers each of which has purchased the item, and is defined as an add-sum of similarity between the former customer and one of the latter customers . Our method detects a customer of which customer - group similarity is high as a promising customer who is expected to purchase the item. IDF(Inverse Document Frequency) value for an item can be viewed as representing rareness of the item, and our IDF threshold method measures similarity between a pair of customers as the add-sum of the IDF values each of which is above a given threshold. In this method, similarity typically becomes high for a pair of customers who purchased many rarely-sold items in common. The data set employed in the experiments represents a transactional data set of a drug store for three months, and involves 8,921 items and 10,434 customers. The validness of our IDF threshold has been empirically proved by investigating of pairs of customers which were detected by several similarity measures for customers. Moreover, our proposed method for purchase prediction outperformed other methods in terms of precision and recall. (author abst.)

DESCRIPTORS: prediction technique; marketing; similarity ; database; threshold; cluster analysis; weighting; customer

IDENTIFIERS: precision  
BROADER DESCRIPTORS: property; numerical value; statistical analysis;  
analysis; statistical method; action and behavior  
CLASSIFICATION CODE(S): KA03010Q; KA06020W

24/5/7 (Item 1 from file: 144)  
DIALOG(R) File 144:Pascal  
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15622642 PASCAL No.: 02-0326902  
Proximity attitudes toward objects and people: Reference to a category  
and a self-representation?

WORTHEN James B; MCGLYNN Richard P; SOLIS Linda Y; COATS Susan  
Southeastern Louisiana University, United States; Texas Tech University,  
United States; University of Texas at Brownsville, United States  
Journal: The American journal of psychology, 2002, 115 (2) 233-250  
ISSN: 0002-9556 CODEN: AJPCAA Availability: INIST-2011;

354000107966630060

No. of Refs.: 2 p.1/2

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

The relative strength of **similarity** to self and category typicality as **predictors** of proximity attitudes (social distance) toward people of varying race and objects associated with people of varying race was investigated. **Similarity** to self and category typicality were significant **predictors** of proximity attitudes toward both objects and people, but **similarity** to self was the significantly stronger **predictor**. The predictive utility of **similarity** to self was greater for object judgments than person judgments, but category typicality was a better **predictor** of person judgments than object judgments. Although the results provide evidence of ingroup favoritism in proximity attitudes toward people, the ingroup bias did not extend to objects associated with people. Category typicality was positively related to attitudes, even for distanced **groups**. The role of **predictability** of the target in determining proximity attitudes is discussed.

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File 636:Gale Group Newsletter DB(TM) 1987-2003/May 16  
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File 16:Gale Group PROMT(R) 1990-2003/May 16  
(c) 2003 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 148:Gale Group Trade & Industry DB 1976-2003/May 16  
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File 624:McGraw-Hill Publications 1985-2003/May 16  
(c) 2003 McGraw-Hill Co. Inc  
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File 369:New Scientist 1994-2003/May W1  
(c) 2003 Reed Business Information Ltd.  
File 112:UBM Industry News 1998-2003/May 16  
(c) 2003 United Business Media  
? ds

Set	Items	Description
S1	7092198	GROUP? ? OR CLUSTER? ?
S2	15202988	RECORD? ? OR PROFILE? ? OR USER? ? OR CONSUMER? ? OR CUSTOMER? ? OR BUYER? ? OR PURCHASER? ? OR SHOPPER? ? OR INDIVIDUAL? ? OR PERSON? ? OR PEOPLE? ?
S3	78522	S1(5N)S2(5N)(SIMILAR? OR MATCH??? OR ALIKE OR LIKE OR COMP- AR? OR ANALOG? OR EQUIVAL? OR RELAT??? OR COMMON OR LIKE OR C- ORRELAT? OR CORRESPOND? OR ASSOCIAT?)
S4	2483652	RECOMMEND? OR PREDICT?
S5	29	S3(S)S4(S)SIMILARITY
S6	27	RD (unique items)

6/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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09445728 Supplier Number: 82652539 (USE FORMAT 7 FOR FULLTEXT)  
The manufacturer-retailer-consumer triad: Differing perceptions regarding  
price promotions. (Articles).  
Moreau, Page; Krishna, Aradhna; Harlam, Bari  
Journal of Retailing, v77, n4, p547(23)  
Winter, 2001  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Refereed; Trade  
Word Count: 8716

... consumer knowledge.  
2.1.2. Manufacturers' and retailers' predictions of each other's  
beliefs  
All of the four relationship scenarios presented above recognize the  
relative **similarity** between retailers and manufacturers **relative to**  
**consumers**. As a result, each **group** is not likely to experience an  
"information deficit" (Hoch, 1988) in its evaluations of the other as a  
target group. Further, the frequent and involved interactions across both  
groups should cause each to be more fully aware of the areas in which they  
differ. Thus, when **predicting** each other's knowledge, manufacturers and  
retailers should be relatively accurate since they interact directly in the  
channel relationship, and thus, understand how their roles...

6/3,K/2 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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14178342 SUPPLIER NUMBER: 81394032 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
An investigation of personality similarity effects (relational and  
perceived) on peer and supervisor ratings and the role of familiarity and  
liking.  
Strauss, Judy P.; Barrick, Murray R.; Connerley, Mary L.  
Journal of Occupational and Organizational Psychology, 74, 5, 637(21)  
Dec, 2001  
ISSN: 0963-1798 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 9419 LINE COUNT: 01063

... raters' personalities and a similarity score could be computed from  
these '360-degree' assessments.

Although we found significant results for the relationship between  
perceived personality **similarity** and performance ratings, we recognize  
there are alternative processes which could be operating to **predict** how  
perceptions of personality **similarity /dissimilarity** relate to performance  
appraisals. Social desirability and/or work-related relevance of the  
personality dimension could affect ratings such that for those traits found  
...

...higher by their supervisors than those dissimilar in agreeableness.  
However, the unit of analysis in the Day and Bedeian study was an aggregate  
of the **group**'s **similarity /dissimilarity** to the **individual**, whereas  
the current study considers the dyad as the unit of analysis. In this  
study, we were not able to assess how absolute differences between...

...is also considered to be both socially desirable and relevant (analyses  
are available upon request from the first author). Consequently, future

research should consider both **similarity** and dissimilarity (direction and level of difference) effects on ratings.

Our results consistently revealed the significant effect perceptions of similarity have on performance ratings. One...

6/3,K/3 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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12374963 SUPPLIER NUMBER: 63263887 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Foci and correlates of organizational identification.

van Knippenberg, Daan; van Schie, Els C. M.

Journal of Occupational and Organizational Psychology, 73, 2, 137

June, 2000

ISSN: 0963-1798 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 5305 LINE COUNT: 00458

... have more in common with their work-groups than with the organization as a whole in terms of the actual work and in terms of **common work-related** fate and history. Even though work- **group** composition may greatly affect the degree of perceived **similarity** between **individual** and **group**, this generally higher degree of **similarity** is likely to lead to higher levels of identification, because **people** are more likely to identify with a **group** the more **similar** the **group** is to themselves (Turner et al., 1987). In addition, as Moreland and Levine (in press) note, the fact that people spend most of their organizational...

...membership rather than in terms of their membership in the organization as a whole (Kramer, 1991).(1) On the basis of these considerations, we may predict that identification will be stronger with the own work-group than with the organization as a whole (Hypothesis 1).

The more strongly an individual identifies...

6/3,K/4 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07720954 SUPPLIER NUMBER: 16674500

Degree of agreement in naming objects and concepts for information retrieval.

Collantes, Lourdes Y.

Journal of the American Society for Information Science, v46, n2, p116(17)  
March, 1995

ISSN: 0002-8231 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: The study investigated the representation of users' knowledge (names of objects and concepts), database representation for similar objects and concepts, and degree of agreement among **users** and between **users** and information system. Three **user groups** gave names to 40 stimuli. Names generated were **compared** with each other and with LC subject headings. Degree of agreement was calculated using **similarity** measures. The analyses identified patterns of agreement and variability in naming. There was little agreement across people in the names they used to describe texts or illustrations. There was little agreement in the names people use and the names **recommended** for use by LC, implying that retrieval systems should do more to accommodate common naming behavior.  
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6/3,K/5 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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05203214 SUPPLIER NUMBER: 10932716 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The dynamics of intense work groups: a study of British string quartets.  
Murnighan, J. Keith; Conlon, Donald E.  
Administrative Science Quarterly, v36, n2, p165(22)  
June, 1991  
ISSN: 0001-8392 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 11012 LINE COUNT: 00892

... same time, diverse points of view--an antecedent of musical conflict--can contribute to richly textured, creative performances (Janis, 1972). Optimal group functioning would balance **similarity** and diversity, capitalizing efficiently on group members' similar attitudes while also taking advantage of diverse creative inputs. Thus, models of conflict resolution (e.g., Pruitt...

...compromise in favor of an active, collaborative approach that focuses, in this situation, on musical rather than inter-personal conflicts. Smith and Berg's (1987) **prediction** is quite different, advocating confrontation rather than resolution. Although diversity along a multitude of dimensions is important to individual and group interaction, our data focus...

...members and its listeners with each new interpretation. Temperament, conflict resolution strategies, decision-making styles, and basic interpersonal skills can vary tremendously within a four- person group . Effective **groups** achieve the best balance of diversity and **similarity** so that members are familiar and sympathetic with each other's points of view yet different enough to be fresh.

METHODS

Participants

We contacted quartets...

6/3,K/6 (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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03932738 SUPPLIER NUMBER: 07217350 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Work group demography, social integration, and turnover.  
O'Reilly, Charles A., III; Caldwell, David F.; Barnett, William P.  
Administrative Science Quarterly, v34, n1, p21(17)  
March, 1989  
ISSN: 0001-8392 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 7085 LINE COUNT: 00586

... 1986). The potential relationship between social integration and turnover suggests the second hypothesis: Hypothesis 2 [(H<sub>sub</sub>.2)]: Higher levels of social integration in work **groups** will be **associated** with lower levels of **individual** turnover. Although the focus of this study is on the relationships among group demography, social integration, and turnover, two other causes of turnover need to...

...2 represent a structural model of the relationship between the demographic homogeneity of groups and the turnover of individuals within those groups. Demographic homogeneity is **predicted** to lead to lower turnover rates, not directly, but indirectly, by increasing the intervening variable of social integration. Separately, both hypotheses are consistent

with previous...

...processes have been suggested (cf. Wagner, Pfeffer, and O'Reilly, 1984; Pfeffer, 1985), no empirical tests have been done to investigate the links among demographic similarity , social integration, and turnover.

METHOD

Procedure

Data were collected in 1979 from employees of the western region of a large convenience-store chain. The 25...mean age was 32.11 years (S.D. = 4.76), and mean tenure in the group was 11.6 months (S.D. = 11.0). Each individual 's demographic similarity with the group was measured for both age and tenure in the group using a variant of the euclidean distance measure used by Wagner, Pfeffer, and O'Reilly...

...2]) to decrease individual-level turnover rates. However, it is plausible that the hypothesized processes could be operating much as expected but, instead, at the individual level of analysis. This possibility is also shown in Figure 1. Group -level similarity might increase individual -level integration into the group , as suggested by arrow a. Alternatively, arrow b illustrates that individual -level similarity might increase the degree to which individuals are integrated into the group . Either of these effects might occur even if the group as a whole has a low level of integration. In turn, individual-level integration could...

6/3,K/7 (Item 6 from file: 148)  
DIALOG(R) File 148:Gale Group Trade & Industry DB  
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02795115 SUPPLIER NUMBER: 04404234  
The profile-query relationship.  
Shepard, Michael A.; Phillips, W.J.  
Journal of the American Society for Information Science, v37, n3, p146(7)  
May, 1986  
ISSN: 0002-8231 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: document retrieval system, and a user query of that retrieval system are examined. The present research uses the Euclidean vector-space model to understand the profile -query relationship. The research finds that the average cluster similarity and the average overlap can be predicted , but that the relationships are not close enough to make individual predictions . The findings could help modify queries to increase their similarities to related profiles and could rank retrieved documents according to how close they are to...

6/3,K/8 (Item 1 from file: 15)  
DIALOG(R) File 15:ABI/Inform(R)  
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02541434 280611881  
Some effects of identity-based social movements on constitutional law in the twentieth century  
Eskridge, William N Jr  
Michigan Law Review v100n8 PP: 2062-2407 Aug 2002  
ISSN: 0026-2234 JRNL CODE: MLW  
WORD COUNT: 103592

...TEXT: government) did women and minorities no good. Surprisingly, the Reconstruction amendments, protecting people of color against state

government oppression, had shown few teeth for these groups . Although the Supreme Court construed the Thirteenth Amendment to protect people of color against state peonage ar

rangements8 and the Fourteenth Amendment to protect them against blatantly discriminatory "class legislation,"9 the Court also ruled that...176

Milliken can be viewed as a self-fulfilling prophecy: once white parents could count on the Supreme Court to respect district lines, they could predictably avoid integration by moving across those lines. And they did, in large numbers.<sup>177</sup> The complex interaction between private choice and public policy that generated...amicus), the Inc. Fund and its allies found its subsequent disparate impact challenges doomed by the difficulties in proving racial motivation. Precisely as Sparer had predicted in Hackney, racial motivation has been all but impossible to prove in most cases, because everyone now knows not to make public racist statements and...

6/3,K/9 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02507073 268855371  
Personality testing in employment settings: Problems and issues in the application of typical selection practices  
Arthur, Winfred Jr; Woehr, David J; Graziano, William G  
Personnel Review v30n5/6 PP: 657-676 2001  
ISSN: 0048-3486 JRNL CODE: PRV  
WORD COUNT: 9293

...TEXT: dimensions) in making these assessments.

As previously noted, when criteria are available, multiple regression procedures can be used to combine multiple personality variables in a prediction model. In the absence of criterion data, however, the options for combining multiple personality variables appear to be limited to profile matching or profile similarity indices which typically involve trying to match applicant personality profiles with known group profiles . Thus, the use of profile /pattern matching or profile similarity indices (which are applied extensively with measures such as the Guilford-Zimmerman temperament survey (GZTS) (Guilford et al., 1978), are an attempt to combine two and "ideal" employee, into a single score or index to obtain information on the degree of congruence, similarity , or match between the two profiles.

Profile similarity indices used in congruence research can be classified into one of two categories - those representing the correlation...

6/3,K/10 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02189790 74775092  
Location matters: A cross-level analysis of the effects of organizational sex composition on turnover  
Elvira, Marta M; Cohen, Lisa E  
Academy of Management Journal v44n3 PP: 591-605 Jun 2001  
ISSN: 0001-4273 JRNL CODE: AMA  
WORD COUNT: 7941

...TEXT: work with more women at their job level.

Some of these arguments may also apply for men. Pfeffer (1983) argued that regardless of whether an **individual** is a minority or a majority **group** member, that **individual** will be affected by being **similar** to or different from the rest of the **group**. Consistent with this **similarity attraction prediction**, Tsui and her coauthors (1992) found that men's psychological attachment diminished with increasing proportions of women. This theory and evidence suggest that men, like...

6/3,K/11 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02172623 73398513  
**Trademark dilution: Empirical measures for an elusive concept**  
Morrin, Maureen; Jacoby, Jacob  
Journal of Public Policy & Marketing v19n2 PP: 265-276 Fall 2000  
ISSN: 0743-9156 JRNL CODE: JMP  
WORD COUNT: 9440

...TEXT:  $F(1,97) = 64.41$ ,  $p < .0001$ , and the interaction of these two terms ( $F(2,97) = 4.02$ ,  $p < .0210$ ) were significant. We had **predicted** in H2 that the likelihood of first-user category recall (e.g., Parker --> pens) would be reduced after exposure to trademark-diluting logos (e.g... name in a similar category and to 58% if they were exposed to use in a dissimilar category ( $p < .0001$  versus control;  $p < .001$  versus **similar group**). These results indicate that first- user category recall was harmed by exposure to second users, in support of H2, and that the extent of dilution, as measured by a reduction in first-user category recall, was greater if a name was used in a dissimilar category, as **predicted** in H6. It was **predicted** in H4 that dilution, as measured by a reduction of first-user category recall, would be more extensive if the first-user brand was unfamiliar...

... familiar brands (920/c,  $p < .0001$ ), in support of H4. This set of results is qualified, however, by the interaction of brand familiarity and category **similarity**. This shows that category **similarity** affected the extent of dilution, but only for unfamiliar brands (61% similar versus 39% dissimilar,  $p < .0002$ ). The extent of dilution for familiar brands was not moderated by category **similarity** (80% similar versus 77% dissimilar, ri.s.).

A review of the individual brand results in Table 2 indicates that some brands, such as Continental Airlines...

6/3,K/12 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02100121 64832224  
**Corporate social performance and attractiveness as an employer to different job seeking populations**  
Albinger, Heather Schmidt; Freeman, Sarah J  
Journal of Business Ethics v28n3 PP: 243-253 Dec 2000  
ISSN: 0167-4544 JRNL CODE: JBE  
WORD COUNT: 5970

...TEXT: only strive for competitive applicants at the higher-choice levels.

TABLE IV

Differences in image perceptions may also be explained by the value differences across groups . Person -organization fit perceptions are predicted by the similarity between the job seeker's values and those he or she perceives to be held by the recruiting organization (Cable and Judge, 1996). Job seeker...

6/3,K/13 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02062751 59716618  
**The influence of proportional and perceptual conflict composition on team performance**  
Jehn, Karen A; Chatman, Jennifer A  
International Journal of Conflict Management v11n1 PP: 56-73 2000  
ISSN: 1044-4068 JRNLD CODE: IJCM  
WORD COUNT: 7560

...TEXT: in the organizational behavior literature. For example, demography researchers have argued that examining the mere presence of demographic characteristics among members of a group and predicting team outcomes based on these is inadequate (e.g., Pfeffer, 1983). Instead, relational demography assesses the distributional differences of members' demographic profiles within various groups . This is important because knowing the comparative similarity or dissimilarity in given demographic attributes of members of a group may provide insight into the members' attitudes and behaviors and the process through which demography affects group and job outcomes (Tsui & O'Reilly, 1989, p...

6/3,K/14 (Item 7 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02051363 57306710  
**A broader approach to personalization**  
Cingil, Ibrahim; Dogac, Asuman; Azgin, Ayca  
Association for Computing Machinery. Communications of the ACM v43n8 PP:  
136-141 Aug 2000  
ISSN: 0001-0782 JRNLD CODE: GACM  
WORD COUNT: 3681

...TEXT: used to deliver the user personalized content, that is, information that fits into his or her personal choices. Moreover, a clustering approach is applied to user profiles to form like-minded user groups so that the most likely content or products can be recommended to a user based on his or her similarity to the like-minded people and their associated preferences. The navigational history of each user on the server site is also kept to determine the site dependent behaviors to make recommendations to like minded users in this respect too.

The user profile is also useful to discover resources on the Internet that may be of interest...

6/3,K/15 (Item 8 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01991520 50445300  
**Customer classification**  
Wyner, Gordon A  
Marketing Research v11n4 PP: 38-39 Winter 1999/Spring 2000  
ISSN: 1040-8460 JRNL CODE: MRE  
WORD COUNT: 1642

...TEXT: distributed 10%, 30%, and 60% in the total population, this information can guide the analysis itself. It generally will lead to different and presumably better **prediction** equations. The classification algorithm takes into account both the **similarity** of a new **customer** to each **group** and the overall likelihood of being in each group.

#### APPLICATIONS

In practice, applications often are divided into two types: a) those in which the information...

6/3,K/16 (Item 9 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01980265 48731239  
**Index predicts individual service use**  
Paddison, Nancy V  
Health Management Technology v21n2 PP: 14-17 Feb 2000  
ISSN: 1074-4770 JRNL CODE: CIH  
WORD COUNT: 1305

...ABSTRACT: an integral part of segmenting and identifying appropriate audiences for healthcare services. Clustering basically means taking a large data set and dividing it into smaller **groups** based on **similarity** within geographical areas. While clearly better than nothing, **clusters** codes do not provide information about **individual** healthcare needs that could help healthcare marketers and planners develop more efficient and focused long-range plans. Fortunately, there is a new data enhancement model...

... Using healthcare variables, which are not present in cluster systems, and sophisticated data mining techniques and mathematics, Customer Potential Management Corp. has developed such a **predictive** healthcare tool. The patent-pending Consumer Healthcare Utilization Index provides a **predictive** number between 0-999 that indicates an individual's propensity to use specific healthcare services.

6/3,K/17 (Item 10 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01969488 47524368  
**Consumer conformity: Review and applications for marketing theory and practice**

Lascu, Dana-Nicoleta; Zinkhan, George  
Journal of Marketing Theory & Practice v7n3 PP: 1-12 Summer 1999  
ISSN: 1069-6679 JRNL CODE: MTP  
WORD COUNT: 7752

...TEXT: Composition

The composition of the group also influences conformity. Since other reference-group members create social pressure that leads to conformity, their characteristics are important **predictors** of an individual's conformity (Allen 1965). If the members of the group differ from a **person** in some important respect, then the **group** will be less acceptable as a **comparison group**. Yet, if **group** members are **similar** to the **person** in question in important respects, then the **group** is an acceptable reference group (Festinger 1953). Therefore, greater conformity is found in situations where there is **similarity** between the **person** and the **group** on important dimensions (Linde and Patterson 1964).

Goal Clarity

The clearer the group's goals, the more attractive the group will be (Bass 1961). Since...

6/3,K/18 (Item 11 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01448174 00-99161  
**The informal organisation: Ride the headless monster**  
Groat, Malcolm  
Management Accounting-London v75n4 PP: 40-42 Apr 1997  
ISSN: 0025-1682 JRNL CODE: MAC  
WORD COUNT: 2444

...TEXT: The stages by which these networks develop has been explained by Argyle (1972) as 'forming, storming, norming and performing'. Reasons why we gravitate towards particular **people** are well known: either **similarity** (hobbies, age- **group**, family circumstances, background) or sexual/physical attraction or mentor-mentee affinity. The pattern of these relationships is more diffuse than that of job-related networks and their 'usefulness' in business is less **predictable**. If the MD and the cleaning lady both happen to be active in helping local disabled children at the weekend, their social relationship may produce...

6/3,K/19 (Item 12 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01445108 00-96095  
**Applicant personality, organizational culture, and organization attraction**  
Judge, Timothy A; Cable, Daniel M  
Personnel Psychology v50n2 PP: 359-394 Summer 1997  
ISSN: 0031-5826 JRNL CODE: PPS  
WORD COUNT: 12448

...TEXT: empirical research on this issue, we expect job seekers' subjective fit perceptions to be related to their attraction to organizations. In its broadest sense, this **prediction** is derived from past situation selection research indicating that people select

environments that fulfill their needs (Diener et al., 1984). This prediction also is rooted in the similarity-attraction paradigm, which suggests that individuals are attracted to other individuals and groups that are similar to them (Byrne, 1969). In the context of organization attraction, Schneider's (1987) attraction-selection-attrition model posits that applicants will be attracted to organizations where they perceive similarity between their attributes and those of the organization.

Hypothesis 7: Objective and subjective person-organization fit will be positively related to organization attraction.

Most person...

6/3,K/20 (Item 13 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01189419 98-38814  
Person-organization fit: An integrative review of its conceptualizations, measurement, and implications  
Kristof, Amy L  
Personnel Psychology v49n1 PP: 1-49 Spring 1996  
ISSN: 0031-5826 JRNL CODE: PPS  
WORD COUNT: 19238

...TEXT: O fit, when conceptualized in multiple ways, on organizational satisfaction. Intention to quit and turnover. Not only do various conceptualizations of P-O fit significantly predict satisfaction and commitment, they are similarly predictive of intentions to quit. Specifically, high levels of supervisor-subordinate and peer goal congruence (individual level), as well as within-constituency congruence (group level), are negatively related to intentions to quit (Vancouver et al., 1994; Vancouver & Schmitt, 1991). Similarly, employees with lower levels of value congruence with their organizations are more likely...

6/3,K/21 (Item 14 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01049285 96-98678  
Race, opportunity, and diversity of social circles in managerial networks  
Ibarra, Herminia  
Academy of Management Journal v38n3 PP: 673-703 Jun 1995  
ISSN: 0001-4273 JRNL CODE: AMA  
WORD COUNT: 11383

...TEXT: identity or organizational group affiliations (Marsden, 1988; Rogers & Kincaid, 1981). Its relevance to the study of access to instrumental resources derives from findings that interpersonal similarity increases ease of communication, improves predictability of behavior, and fosters relationships of trust and reciprocity (Kanter, 1977; Lincoln & Miller, 1979). Consequently, explanations of network obstacles must consider the consequences of a...

6/3,K/22 (Item 15 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)

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00810420 94-59812

**Researching mutual help group participation in a segregated society**

Humphreys, Keith; Woods, Michael D

Journal of Applied Behavioral Science v29n2 PP: 181-201 Jun 1993

ISSN: 0021-8863 JRNL CODE: JBS

...ABSTRACT: help group involvement after substance abuse treatment was conducted. One year after treatment intake, Black (233) and White (267) substance abusers were attending 12-step groups at comparable rates, but different factors predicted attendance for each racial group. For both racial groups, similarity of the individual's race to the predominant race in the area predicted mutual help involvement positively. That is, Whites in predominantly White areas and Blacks in predominantly Black areas were more likely to go to a group...

6/3,K/23 (Item 16 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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00769616 94-19008

**Organizational demography in Japanese firms: Group heterogeneity, individual dissimilarity, and top management team turnover**

Wiersema, Margarethe F; Bird, Allan

Academy of Management Journal v36n5 PP: 996-1025 Oct 1993

ISSN: 0001-4273 JRNL CODE: AMA

WORD COUNT: 9966

...TEXT: 1991), group demographic composition is a strong determinant of interpersonal attraction and sets the social context for relationships within an organization. The degree of an individual's similarity or dissimilarity to others in a work group may influence processes that affect employee job satisfaction and organizational commitment, important predictors of turnover (Michaels & Spector, 1982; Mobley, Griffeth, Hand & Meglino, 1979). Demographic similarity has been found to promote a cohort effect, fostering group solidarity and cohesion, leading to greater integration and higher levels of interpersonal communication (Back, 1951...

6/3,K/24 (Item 17 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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00663542 93-12763

**Personal networks of women and minorities in management: A conceptual framework**

Ibarra, Herminia

Academy of Management Review v18n1 PP: 56-87 Jan 1993

ISSN: 0363-7425 JRNL CODE: AMR

WORD COUNT: 13012

...TEXT: division of labor or in their access to scarce resources (Laumann, Galaskiewics, & Marsden, 1978; Lincoln, 1982).

Homophily refers to the degree to which pairs of individuals who interact are similar in identity or organizational group affiliations (Marsden, 1988; Rogers & Kincaid, 1981). Interpersonal similarity increases ease of communication, improves predictability of behavior, and fosters

relationships of trust and reciprocity (Kanter, 1977; Lincoln & Miller, 1979). People who work in the same department or who have similar...

6/3,K/25 (Item 18 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00118317 80-12254  
**An Exploratory Investigation into the Nature of the Part-Time MBA Student**  
Herbert, Theodore T.  
Human Relations v33n5 PP: 279-295 May 1980  
ISSN: 0018-7267 JRNL CODE: HRL

...ABSTRACT: to 123 nonminority male graduate students enrolled in a part-time Master of Business Administration (MBA) program to measure patterns of sample-group personality scale **similarity** or dissimilarity with selected criterion groups. Personality comparisons were felt to offer implications of programmatic and vocational significance. Criterion groups chosen were the CPI norm...

... MBA student sample displayed attributes which indicated managerial success when compared with the large norm sample. Broad patterns of significant differences emerged when the MBA **profile** was **compared** with the **profiles** of the criterion **groups**. Some of the characteristics which MBA students lacked were responsibility, capacity for status, self-control, achievement via conformance, and intellectual efficiency. MBA students possessed the...

... mindedness. The findings cast a shadow of doubt on certain assumptions such as that the successful completion of an MBA program may be considered a **predictor** of success in the business world. ...

6/3,K/26 (Item 19 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00086548 79-01436  
**Incorporating Group-Level Similarity Judgements in Conjoint Analysis**  
Green, Paul E.; Rao, Vithala R.; DeSarbo, Wayne S.  
Journal of Consumer Research v5n3 PP: 187-193 Dec. 1978  
ISSN: 0093-5301 JRNL CODE: JCR

ABSTRACT: It is possible to include **group -level similarity** judgments in conjoint analysis. The method of obtaining **group -level similarity** judgments to describe relationships between real objects and **profile** descriptions is applied to respondent preferences for vacation sites. Two general limitations of this approach are apparent: 1. the assumption that all respondents share the...

... product/service concept testing. Not only can preferences for alternative concepts be tested, but preferences for mixtures of concepts and real objects can also be **predicted**. Figure. ...

6/3,K/27 (Item 1 from file: 696)  
DIALOG(R)File 696:DIALOG Telecom. Newsletters  
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00625526

The "Women's Audience" Is A Myth Effective Segmentation Requires More Sophisticated Approach

HEALTHCARE PR & MARKETING NEWS

September 17, 1998 VOL: 7 ISSUE: 19 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH WORD COUNT: 823 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...ethnicity, education levels and so on. The problem with demographics - which many healthcare marketers still use - is that they cannot, do not and will not **predict similarity** of behaviors.

Not all women are alike. Not all women over age 50 are alike.

Not all white women between the ages of 40 and...behaviors and by attitudes, beliefs and values - why they do what they do.

Working with these profiles, we can specify an audience and build a **profile** or let the data identify the audiences - **groups of people** who are **alike** on key factors like smoking.